# Plaintiffs' Reply Exhibit 73

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#### HIGHLY CONFIDENTIAL—ATTORNEYS' EYES ONLY

April 11, 2022

#### VIA JAMS ACCESS

Special Master Daniel B. Garrie DGarrie@jamsadr.com

Re: In re Facebook Consumer Privacy User Profile Litigation, JAMS Ref No. 1200058674

Dear Special Master Garrie,

Pursuant to Order Following March 9, 2022 Hearing Regarding Plaintiffs' Motion To Compel Production of Plaintiff Data dated March 22, 2022, we submit this response on behalf of Facebook. We also thank the Special Master for granting an extension of our time to respond due to a medical condition on our team, as well as Plaintiffs for agreeing to our request for an extension.

#### Hive

1. How does ad impression and ad click data for Facebook users get into Hive?

**Answer**: Ad impression and ad click data are received by Facebook servers through a HTTP web request from a user's web browser or the Facebook app installed on the user's device.

2. What tables store ad impression and ad click data for Facebook users?

**Answer**: The following Hive tables store ad impression and ad click data:

- ad imps annotated
- ad clks annotated

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3. What data pipelines are used to analyze ad impressions and ad click data for Facebook users? Where is the final output of these data pipelines stored (e.g. Hive table names, TAO, etc.)?

**Answer**: Based on a reasonable investigation, we attach as **Exhibit A** a list of data pipelines used to analyze ad impression and ad click data for which we believe output in stored in Hive.

4. Identify a list of Hive tables containing columns that store a UID, RID, SID, ASID, or other means of identifying a Facebook user. The list is to include tables that were active during the relevant time period.

Answer: Based on a reasonable investigation, we attach as Exhibit B a list of Hive tables that store user identifiers with data as it enters Hive. These tables were identified using tools that probabilistically identified them as containing user identifiers. The list does not include: (1) temporary, test, and error tables; (2) tables used to evaluate system performance; (3) tables that contain no data; (4) tables related to other Meta products (e.g., Oculus, Instagram, and WhatsApp); (5) tables used for infrastructure, operations, and product testing; and (6) tables believed to contain data that is either duplicative or transformed.

5. What is the estimated time and cost to produce data for the Named Plaintiffs from Hive?

**Answer**: Meta estimates that it would take approximately 62 billion CPU seconds or around 720,000 CPU days of computational cost to search across the entire Hive Data Warehouse and extract all the data about a single user.

#### **Ads Interests**

1. How does Facebook determine ads interests for a user based on what the user views (i.e. are ad interests based on what the user views on Facebook or other Internet activity)?

**Answer**: Ads interests are derived from two types of on-platform activity: (1) page interactions and (2) ad interactions. Page interactions include the following types of engagement: like, share, follow, comment, RSVP, comment, claim, answer, other action, link click, photo view click, video play click, video CTA click, other click. Ad interactions are ad clicks.

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2. Does Facebook track user activity across the Internet using cookies? If so, what cookies does Facebook use? Provide a statement explaining the use of cookies in tracking user activity on and off the Facebook platform to create behavioral data about users. Provide documentation on the use of fbp, fbc, and DATR cookies. Explain whether the scope of tracking user activity includes on or off platform activity, or both.

**Answer**: Facebook does not track user activity across the internet. Facebook receives data about a user's off-platform activity from advertisers who choose to integrate Facebook Business Tools, such as Facebook Pixel, which in turn rely on web technologies like cookies.

Facebook uses browser and user cookies (on and off-platform).

Browser cookies used to identify the browser:

- DATR: The DATR cookie identifies a web browser and is generally used for safety and security purposes.
- \_ fbp: The \_fbp cookie is set on the third party domain only if the advertiser/publisher has installed the Facebook Pixel business tool and opted into the use of these cookies. The cookie has a browser identifier, and the epoch time when the cookie was created. For documentation on the \_fbp and \_fbc cookies, please see https://developers.facebook.com/docs/marketing-api/conversions-api/parameters/fbp-and-fbc/
- fr: The fr cookie is used for advertising purposes

*User cookies* used to identify a Facebook user:

- \_\_fbc: The \_fbc cookie is a cookie set on the third party domain only if the advertiser/publisher has installed the Facebook Pixel business tool. It is only set if the click originated from the Facebook services (e.g., when clicking on an ad on Facebook news feed). The \_fbc cookie contains an encrypted user id.
- xs/c\_user: The xs/c\_user cookies are used to identify if a user is logged into the Facebook platform.

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3. How are ads interests associated with a particular user? Where is ads interests data for individual users stored? Facebook is to describe whether ad interests data can be associated with a specific user via UID, RID, SID, ASID, or other means and whether it is included in the DYI file.

**Answer**: Ads interests are associated with a particular user via UID. Ads interests data for individual users are stored in a Hive table called adm\_user\_interest\_v4\_prod. They are also available in DYI and Ads Settings.

4. What is the estimated time and cost to produce ad interests data for the Named Plaintiffs?

Answer: Ads interests for the Named Plaintiffs are in the DYI file.

#### **Contracts**

1. Is the data referenced in the contracts with Netflix, Microsoft, and/or YouTube that Facebook provided to Special Master Garrie for *in camera* review in connection with the Named Plaintiff Data hearings included in the DYI file? If not, Facebook is to specify what data is not included and where such data stored.

**Answer**: Based on a reasonable investigation to date, the list attached as **Exhibit C** identifies user data in the contracts submitted to Special Master Garrie for *in camera* review and (1) whether it is included in the DYI file, and (2) if it is not included in the DYI file, the most likely location of that data. Upon further review of the contracts submitted, we note that many do not actually relate to user data, and many are a decade or more old and relate to products that were deprecated long ago.

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Rosemarie Ring

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Sincerely,

Rosemarie T. Ring

## Exhibit A

Highly Confidential -Attorneys' Eyes Only

#### Exhibit A

#### Pipelines that contain 'ad imps annotated' and 'ad clks annotated'

- 1. fbsource/fbcode/dataswarm-pipelines/dataswarm\_commons/ad\_delivery/content\_understanding/recurrent\_sampling/sampling\_configs.py
- 2. fbsource/fbcode/dataswarm-pipelines/dataswarm commons/ad metrics/ads personalization/user engagement/systematic feature engineering/configs.py
- 3. fbsource/fbcode/dataswarm-pipelines/dataswarm\_commons/ad\_metrics/ads\_personalization/user\_engagement/systematic\_feature\_engineering/engagement\_types/ad.py
- 4. fbsource/fbcode/dataswarm-pipelines/dataswarm\_commons/ad\_metrics/measurement/vce/hql\_utils.py
- 5. fbsource/fbcode/dataswarm-pipelines/dataswarm commons/ad metrics/video ads/partner feeds/audience network/hql utils.py
- 6. fbsource/fbcode/dataswarm-pipelines/dataswarm commons/ad metrics/video ads/partner feeds/hql utils.py
- 7. fbsource/fbcode/dataswarm-pipelines/dataswarm commons/ico/core.py
- 8. fbsource/fbcode/dataswarm-pipelines/dataswarm commons/vertical lift platform/core.py
- 9. fbsource/fbcode/dataswarm-pipelines/dataswarm commons/videos/video de/fct video consumption schema.py
- 10. fbsource/fbcode/dataswarm-pipelines/scripts/ad metrics/order id/backfill
- 11. fbsource/fbcode/dataswarm-pipelines/scripts/audience network/downstream data dependencies.py
- 12. fbsource/fbcode/dataswarm-pipelines/tasks/ad delivery/aa differences/continuity features config.py
- 13. fbsource/fbcode/dataswarm-pipelines/tasks/ad\_delivery/admarket/adevent\_organic\_bid\_value.py
- 14. fbsource/fbcode/dataswarm-pipelines/tasks/ad delivery/ads dynamism/creative ranking/ad creative ranking standard training data.py
- 15. fbsource/fbcode/dataswarm-pipelines/tasks/ad\_delivery/ads\_dynamism/pac\_impression\_data.py
- 16. fbsource/fbcode/dataswarm-pipelines/tasks/ad delivery/ads fairness equity outcomes/generate simulation input realistic auction.py
- 17. fbsource/fbcode/dataswarm-pipelines/tasks/ad delivery/ads profile/unattributed pixel ads feature.py
- 18. fbsource/fbcode/dataswarm-pipelines/tasks/ad delivery/ads quality/c oops joint sampling.py
- 19. fbsource/fbcode/dataswarm-pipelines/tasks/ad delivery/ads quality/fb ads imps per qrt.py
- 20. fbsource/fbcode/dataswarm-pipelines/tasks/ad\_delivery/ads\_quality/oops\_joint\_sampling.py
- 21. fbsource/fbcode/dataswarm-pipelines/tasks/ad delivery/ads quality/proxy oops reels.py
- 22. fbsource/fbcode/dataswarm-pipelines/tasks/ad\_delivery/adstats/ad\_stats\_conf\_daily.py
- 23. fbsource/fbcode/dataswarm-pipelines/tasks/ad\_delivery/adstats/mpa\_child\_id\_stats.py
- 24. fbsource/fbcode/dataswarm-pipelines/tasks/ad\_delivery/auction\_health/advertiser\_impact\_v2/advertiser\_baseline\_variance.py
- 25. fbsource/fbcode/dataswarm-pipelines/tasks/ad\_delivery/bison/campaign\_distributions.py
- 26. fbsource/fbcode/dataswarm-pipelines/tasks/ad\_delivery/bison/country\_ecpm.py
- 27. fbsource/fbcode/dataswarm-pipelines/tasks/ad\_delivery/clarity\_and\_guidance/audience\_saturation/user\_account\_impression\_count\_daily.py
- 28. fbsource/fbcode/dataswarm-pipelines/tasks/ad\_delivery/clarity\_and\_guidance/fragmentation/bqrt\_fragmentation\_exp\_table1.py
- 29. fbsource/fbcode/dataswarm-pipelines/tasks/ad\_delivery/cold\_start/qe\_reach.py
- 30. fbsource/fbcode/dataswarm-pipelines/tasks/ad\_delivery/creative\_fatigue/dpa/stg\_product\_item\_metrics.py
- 31. fbsource/fbcode/dataswarm-pipelines/tasks/ad\_delivery/creative\_understanding/cu\_all\_labels.py
- 32. fbsource/fbcode/dataswarm-pipelines/tasks/ad\_delivery/deep\_funnel\_ranking/pco/pco\_click\_events.py
- 33. fbsource/fbcode/dataswarm-pipelines/tasks/ad\_delivery/deep\_funnel\_ranking/pco/pco\_data\_collector\_partial\_attr\_win\_eligible\_advs.py
- 34. fbsource/fbcode/dataswarm-pipelines/tasks/ad\_delivery/deep\_funnel\_ranking/pco/pco\_post\_click\_data\_collector\_full\_attr\_win.py
- 35. fbsource/fbcode/dataswarm-pipelines/tasks/ad\_delivery/deep\_funnel\_ranking/pco/pco\_post\_click\_data\_collector\_partial\_attr\_win.py
- 36. fbsource/fbcode/dataswarm-pipelines/tasks/ad\_delivery/deep\_funnel\_ranking/pco/pco\_training\_data\_collector.py
- 37. fbsource/fbcode/dataswarm-pipelines/tasks/ad\_delivery/dim\_all\_ad\_users/daau\_daily\_fct\_load.py
- 38. fbsource/fbcode/dataswarm-pipelines/tasks/ad\_delivery/dim\_all\_ad\_users/daau\_stg.py
- 39. fbsource/fbcode/dataswarm-pipelines/tasks/ad\_delivery/dpa\_ranking/dpa\_ar\_ads\_training\_data.py
- 40. fbsource/fbcode/dataswarm-pipelines/tasks/ad\_delivery/experiments/generate\_full\_imp\_table\_attribution\_7d\_presto.py
- 41. fbsource/fbcode/dataswarm-pipelines/tasks/ad\_delivery/fam\_ds/att\_quality\_v2.py
- 42. fbsource/fbcode/dataswarm-pipelines/tasks/ad\_delivery/feed\_ads/ad\_load/aad\_with\_mitigation\_users.py

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43. fbsource/fbcode/dataswarm-pipelines/tasks/ad delivery/feed ads/ads context/softmax sampling social context pipeline.py 44. fbsource/fbcode/dataswarm-pipelines/tasks/ad\_delivery/feed\_ads/ads\_context/user\_celebrity\_follows.py 45. fbsource/fbcode/dataswarm-pipelines/tasks/ad delivery/feed ads/ads description/lpp desc cvr oc data gen.py 46. fbsource/fbcode/dataswarm-pipelines/tasks/ad delivery/feed ads/ads description/lpp desc cvr oc data separate.py 47. fbsource/fbcode/dataswarm-pipelines/tasks/ad delivery/feed ads/ads description/lpp desc two funnel data gen.py 48. fbsource/fbcode/dataswarm-pipelines/tasks/ad delivery/feed ads/ads description/lpp desc two funnel sample data gen.py 49. fbsource/fbcode/dataswarm-pipelines/tasks/ad delivery/feed ads/ads description/lpp dynamic rendering qualified ads dictionary generation.py 50. fbsource/fbcode/dataswarm-pipelines/tasks/ad delivery/feed ads/ads text optimization/dco text asset training data generation.py 51.fbsource/fbcode/dataswarm-pipelines/tasks/ad delivery/feed ads/ads text optimization/gsf feature table.py 52. fbsource/fbcode/dataswarm-pipelines/tasks/ad delivery/feed ads/ads text optimization/text body norman tokenizer.py 53. fbsource/fbcode/dataswarm-pipelines/tasks/ad delivery/feed ads/call extension/cxt ranking model training pipeline feed.py 54. fbsource/fbcode/dataswarm-pipelines/tasks/ad delivery/feed ads/call extension/cxt ranking model training pipeline v8 feed.py 55.fbsource/fbcode/dataswarm-pipelines/tasks/ad delivery/feed ads/call extension/model training pipeline/cxt ad imps annotated.py 56. fbsource/fbcode/dataswarm-pipelines/tasks/ad delivery/feed ads/carousel/dpa/carousel card number prediction training data.py 57. fbsource/fbcode/dataswarm-pipelines/tasks/ad delivery/feed ads/carousel/dpa/data processing api.py 58. fbsource/fbcode/dataswarm-pipelines/tasks/ad\_delivery/feed\_ads/carousel/dpa/format\_automation\_training\_pipeline.py 59. fbsource/fbcode/dataswarm-pipelines/tasks/ad delivery/feed ads/carousel/dpa/text liquidity text overlay training pipeline.py 60. fbsource/fbcode/dataswarm-pipelines/tasks/ad delivery/feed ads/click to call/model training pipeline/ctc ad imps annotated.py 61.fbsource/fbcode/dataswarm-pipelines/tasks/ad delivery/feed ads/click to call/model training pipeline/ctc ad imps annotated rev correction.py 62.fbsource/fbcode/dataswarm-pipelines/tasks/ad delivery/feed ads/click to call/model training pipeline/ctc ranking model training pipeline v7 marketplace 15s purged.py 63. fbsource/fbcode/dataswarm-pipelines/tasks/ad delivery/feed ads/click to call/model training pipeline/ctc ranking model training pipeline v7 pa 15s purged gap filtered.py 64.fbsource/fbcode/dataswarm-pipelines/tasks/ad delivery/feed ads/click to call/model training pipeline/ctc ranking model training pipeline v8 pa 15s purged gap filtered.py 65. fbsource/fbcode/dataswarm-pipelines/tasks/ad delivery/feed ads/click to call/model training pipeline/ctc ranking model training pipeline v8 pa 60s purged gap filtered.py 66. fbsource/fbcode/dataswarm-pipelines/tasks/ad delivery/feed ads/dynamic video ads looping/dynamic video looping training data gen.py 67. fbsource/fbcode/dataswarm-pipelines/tasks/ad delivery/feed ads/features/user history aggregator.py 68. fbsource/fbcode/dataswarm-pipelines/tasks/ad delivery/feed ads/find related ads/data analysis/related ads ml data api.py 69. fbsource/fbcode/dataswarm-pipelines/tasks/ad delivery/feed ads/find related ads/data analysis/related ads ml data config.py 70. fbsource/fbcode/dataswarm-pipelines/tasks/ad delivery/feed ads/find related ads/data analysis/related ads grt metrics.py 71. fbsource/fbcode/dataswarm-pipelines/tasks/ad delivery/feed ads/find related ads/emerging surfaces/fra config fb story.py 72. fbsource/fbcode/dataswarm-pipelines/tasks/ad delivery/feed ads/find related ads/emerging surfaces/fra config marketplace.py 73. fbsource/fbcode/dataswarm-pipelines/tasks/ad delivery/feed ads/find related ads/emerging surfaces/fra config more page types.py 74. fbsource/fbcode/dataswarm-pipelines/tasks/ad delivery/feed ads/find related ads/emerging surfaces/fra config video2ad.py 75. fbsource/fbcode/dataswarm-pipelines/tasks/ad delivery/feed ads/find related ads/emerging surfaces/fra random walk marketplace optimized signal input.py 76. fbsource/fbcode/dataswarm-pipelines/tasks/ad delivery/feed ads/find related ads/fra config.py 77. fbsource/fbcode/dataswarm-pipelines/tasks/ad delivery/feed ads/find related ads/fra method random walk filter ecpm.py 78. fbsource/fbcode/dataswarm-pipelines/tasks/ad delivery/feed ads/find related ads/related ads ml features/feature coverage.py 79. fbsource/fbcode/dataswarm-pipelines/tasks/ad delivery/feed ads/format ads bid adjustment/lpp adindexer treatment effects analysis.py 80. fbsource/fbcode/dataswarm-pipelines/tasks/ad delivery/feed ads/gsf watch channel non engagement feature.py 81.fbsource/fbcode/dataswarm-pipelines/tasks/ad delivery/feed ads/image filtering/image filtering plus conv training table collection.py 82. fbsource/fbcode/dataswarm-pipelines/tasks/ad delivery/feed ads/image filtering/image filtering training table collection.py 83. fbsource/fbcode/dataswarm-pipelines/tasks/ad delivery/feed ads/media liquidity/eligible adsets large scale test.py 84. fbsource/fbcode/dataswarm-pipelines/tasks/ad delivery/feed ads/media liquidity/media liquidity ad media equivalence key event count daily.py

85. fbsource/fbcode/dataswarm-pipelines/tasks/ad\_delivery/feed\_ads/primary\_text\_line\_num/combined\_lpp\_primary\_text\_line\_num\_all\_traffic\_train\_random.py

86. fbsource/fbcode/dataswarm-pipelines/tasks/ad delivery/feed ads/primary text line num/primary text line num cvr data separate selected.pv

87. fbsource/fbcode/dataswarm-pipelines/tasks/ad delivery/feed ads/user prediction aggregation.py

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- 88. fbsource/fbcode/dataswarm-pipelines/tasks/ad delivery/feed ads quality/ad 3 dot/user 3 dot category control aggregation.py
- 89. fbsource/fbcode/dataswarm-pipelines/tasks/ad\_delivery/feed\_ads\_quality/ad\_3\_dot/user\_ad\_3\_dot\_smsl\_pred\_agg.py
- 90. fbsource/fbcode/dataswarm-pipelines/tasks/ad\_delivery/feed\_ads\_quality/afi/ad\_afi\_aggregation.py
- 91.fbsource/fbcode/dataswarm-pipelines/tasks/ad\_delivery/feed\_ads\_quality/afi/afi\_lure.py
- 92. fbsource/fbcode/dataswarm-pipelines/tasks/ad\_delivery/feed\_ads\_quality/afi/user\_afi\_aggregation.py
- 93. fbsource/fbcode/dataswarm-pipelines/tasks/ad delivery/feed ads quality/afi/user afi category control aggregation v2.py
- 94. fbsource/fbcode/dataswarm-pipelines/tasks/ad delivery/feed ads quality/afi/user dwell trig eafi aggregation.py
- 95.fbsource/fbcode/dataswarm-pipelines/tasks/ad delivery/feed ads quality/afi/user ectr eafi aggregation.py
- 96. fbsource/fbcode/dataswarm-pipelines/tasks/ad delivery/feed ads quality/awr/asq metric tracking.py
- 97. fbsource/fbcode/dataswarm-pipelines/tasks/ad delivery/feed ads quality/awr/asq metric tracking alter.py
- 98. fbsource/fbcode/dataswarm-pipelines/tasks/ad delivery/feed ads quality/awr/asq metric tracking v2.py
- 99. fbsource/fbcode/dataswarm-pipelines/tasks/ad delivery/feed ads quality/awr/asq metric tracking v2 ya prod.py
- 100.fbsource/fbcode/dataswarm-pipelines/tasks/ad delivery/feed ads quality/awr/asq metric tracking v2 ya qrt.py
- 101.fbsource/fbcode/dataswarm-pipelines/tasks/ad delivery/feed ads quality/awr/asq metric tracking v2 ya viewprob.py
- 102.fbsource/fbcode/dataswarm-pipelines/tasks/ad delivery/feed ads quality/awr/cs5 metric tracking.py
- 103.fbsource/fbcode/dataswarm-pipelines/tasks/ad delivery/feed ads quality/awr/cs5 metric tracking alter.py
- 104.fbsource/fbcode/dataswarm-pipelines/tasks/ad delivery/feed ads quality/es/user pase pred aggregation.py
- 105.fbsource/fbcode/dataswarm-pipelines/tasks/ad delivery/feed ads quality/join bounce and annotated clicks offline.py
- 106.fbsource/fbcode/dataswarm-pipelines/tasks/ad\_delivery/feed\_ads\_quality/signal/populate\_feed\_ads\_engagement\_events.py
- 107.fbsource/fbcode/dataswarm-pipelines/tasks/ad delivery/feed ads quality/signal/populate feed ads non engagement signal.py
- 108.fbsource/fbcode/dataswarm-pipelines/tasks/ad delivery/feed ads quality/user country enfbr aggregation.py
- 109.fbsource/fbcode/dataswarm-pipelines/tasks/ad delivery/feed ads quality/user elwnf aggregation.py
- 110.fbsource/fbcode/dataswarm-pipelines/tasks/ad delivery/feed ads quality/user enfbr aggregation v2.py
- 111.fbsource/fbcode/dataswarm-pipelines/tasks/ad\_delivery/feed\_ads\_quality/utc/utc\_boost\_aggregation.py
- 112.fbsource/fbcode/dataswarm-pipelines/tasks/ad delivery/instagram ads/ranking/build ig ad creative engagement event.py
- 113.fbsource/fbcode/dataswarm-pipelines/tasks/ad\_delivery/instream\_ads/relevance/config.py
- 114.fbsource/fbcode/dataswarm-pipelines/tasks/ad\_delivery/instream\_ads/relevance/fra\_config\_more\_page\_types\_instream.py
- $115. fbsource/fbcode/dataswarm-pipelines/tasks/ad\_delivery/instream\_ads/weekly\_user\_enfbr\_aggregation.py$
- 116.fbsource/fbcode/dataswarm-pipelines/tasks/ad delivery/intent/regret analysis/regret process attr unattr convs.py
- 117.fbsource/fbcode/dataswarm-pipelines/tasks/ad\_delivery/intent/regret\_analysis/regret\_wait\_for\_operators.py
- 118.fbsource/fbcode/dataswarm-pipelines/tasks/ad\_delivery/marketplace\_ads/generate\_request\_level\_dense\_feature.py
- 119.fbsource/fbcode/dataswarm-pipelines/tasks/ad\_delivery/marketplace\_ads/generate\_reverse\_mapping\_from\_c2c\_fpt\_to\_ad\_mt.py
- 120.fbsource/fbcode/dataswarm-pipelines/tasks/ad delivery/marketplace ads/generate sparse entity equivalence key from ad product graph learning.py
- 121.fbsource/fbcode/dataswarm-pipelines/tasks/ad\_delivery/marketplace\_ads/marketplace\_ads engagement.py
- 122.fbsource/fbcode/dataswarm-pipelines/tasks/ad\_delivery/marketplace\_ads/marketplace\_user\_doller\_value.py
- 123.fbsource/fbcode/dataswarm-pipelines/tasks/ad\_delivery/marketplace\_ads/marketplace\_user\_engaged\_ad\_hash\_ids.py
- 124.fbsource/fbcode/dataswarm-pipelines/tasks/ad\_delivery/marketplace\_ads/mp\_mt\_retrieval\_opt.py
- 125.fbsource/fbcode/dataswarm-pipelines/tasks/ad\_delivery/megataxon/megataxon\_sampling/ads\_off\_topic\_sampling.py
- 126.fbsource/fbcode/dataswarm-pipelines/tasks/ad\_delivery/megataxon/megataxon\_sampling/ads\_sampling.py
- 127.fbsource/fbcode/dataswarm-pipelines/tasks/ad\_delivery/model\_system\_optimization/adfinder\_model\_system\_optimization\_imps\_qrt.py
- 128.fbsource/fbcode/dataswarm-pipelines/tasks/ad\_delivery/model\_system\_optimization\_joint\_optimization\_autotune/joint\_optimization\_adfinder\_model\_system\_optimization\_imps\_qrt.py
- 129.fbsource/fbcode/dataswarm-pipelines/tasks/ad\_delivery/neko/features/neko\_onsite\_click\_app\_ids.py
- 130.fbsource/fbcode/dataswarm-pipelines/tasks/ad\_delivery/odax/backend\_delivery\_metrics\_test.py
- 131.fbsource/fbcode/dataswarm-pipelines/tasks/ad\_delivery/offline\_evaluation/data\_cooking/index\_table.py
- 132.fbsource/fbcode/dataswarm-pipelines/tasks/ad\_delivery/offline\_evaluation/data\_cooking/main\_table.py

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- 133.fbsource/fbcode/dataswarm-pipelines/tasks/ad delivery/offline evaluation/page type auction density normalized.py
- 134.fbsource/fbcode/dataswarm-pipelines/tasks/ad\_delivery/opt\_out\_users/legality\_util.py
- 135.fbsource/fbcode/dataswarm-pipelines/tasks/ad\_delivery/opt\_out\_users/tests/test\_legality\_util.py
- 136.fbsource/fbcode/dataswarm-pipelines/tasks/ad\_delivery/pacing\_quality\_constraint/user\_daily\_ads\_quality\_externality.py
- 137.fbsource/fbcode/dataswarm-pipelines/tasks/ad delivery/personalization/clubs/attributes/user ads daily.py
- 138.fbsource/fbcode/dataswarm-pipelines/tasks/ad\_delivery/personalization/user\_server\_local\_time\_diff.py
- 139.fbsource/fbcode/dataswarm-pipelines/tasks/ad\_delivery/quality\_ltae/ad\_clks\_1\_day.py
- 140.fbsource/fbcode/dataswarm-pipelines/tasks/ad delivery/quality ltae/ad imps annotated user agg 1 day.py
- 141.fbsource/fbcode/dataswarm-pipelines/tasks/ad delivery/quality ltae/ad imps annotated user agg 1 day shards/shard 001.py
- 142.fbsource/fbcode/dataswarm-pipelines/tasks/ad delivery/quality ltae/ad imps annotated user agg 1 day shards/shard 002.py
- 143.fbsource/fbcode/dataswarm-pipelines/tasks/ad delivery/quality ltae/ad imps annotated user agg 1 day shards/shard 003.py
- 144.fbsource/fbcode/dataswarm-pipelines/tasks/ad delivery/quality ltae/ad imps annotated user agg 1 day shards/shard 004.py
- 145.fbsource/fbcode/dataswarm-pipelines/tasks/ad delivery/quality ltae/ad imps annotated user agg 1 day shards/shard 005.py
- 146.fbsource/fbcode/dataswarm-pipelines/tasks/ad\_delivery/quality\_ltae/stg\_ltae\_user\_quality\_label\_by\_source\_params.py
- 147.fbsource/fbcode/dataswarm-pipelines/tasks/ad delivery/quality optimal allocation/ads quality org bid req level info imps.py
- 148.fbsource/fbcode/dataswarm-pipelines/tasks/ad delivery/request level logging/ads quality request level information with imps.py
- 149.fbsource/fbcode/dataswarm-pipelines/tasks/ad delivery/request level logging/end to end ad delivery.py
- 150.fbsource/fbcode/dataswarm-pipelines/tasks/ad delivery/responsible ai in ads/adcandidates with labels.py
- 151.fbsource/fbcode/dataswarm-pipelines/tasks/ad delivery/rf/rf user impression history.py
- 152.fbsource/fbcode/dataswarm-pipelines/tasks/ad delivery/rf/user page type display format long term history.py
- 153.fbsource/fbcode/dataswarm-pipelines/tasks/ad delivery/services/service book now ads information.py
- 154.fbsource/fbcode/dataswarm-pipelines/tasks/ad delivery/signal resilience/aggregated data/aem features.py
- 155.fbsource/fbcode/dataswarm-pipelines/tasks/ad delivery/signal resilience/onsite proxy features/ad pixel mapping.py
- 156.fbsource/fbcode/dataswarm-pipelines/tasks/ad delivery/social network features daily/snf daily friends linkclick idscorelist pageid.py
- 157.fbsource/fbcode/dataswarm-pipelines/tasks/ad\_delivery/sparse\_feature\_clustering/update\_user\_entity\_graph.py
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- 160.fbsource/fbcode/dataswarm-pipelines/tasks/ad delivery/up2x/pagetype category history aggr.py
- 161.fbsource/fbcode/dataswarm-pipelines/tasks/ad delivery/user political ads prevalence.py
- 162.fbsource/fbcode/dataswarm-pipelines/tasks/ad\_delivery/video\_ads/personalization/gsf\_thumbnail\_content\_feature.py
- 163.fbsource/fbcode/dataswarm-pipelines/tasks/ad\_delivery/video\_ads/personalization/gsf\_thumbnail\_cortex\_feature.py
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- 165.fbsource/fbcode/dataswarm-pipelines/tasks/ad\_metrics/abp\_ads\_quality/c\_oops/metric\_per\_qrt.py
- 166.fbsource/fbcode/dataswarm-pipelines/tasks/ad\_metrics/abp\_ads\_quality/purchase\_sentiment\_experiments.py
- 167.fbsource/fbcode/dataswarm-pipelines/tasks/ad\_metrics/abp\_ads\_quality/purchase\_sentiment\_prediction.py
- 168.fbsource/fbcode/dataswarm-pipelines/tasks/ad\_metrics/abp\_ds\_eco/signal\_loss\_cpa/wc\_cpa.py
- 169.fbsource/fbcode/dataswarm-pipelines/tasks/ad\_metrics/abp\_ds\_eco/signal\_loss\_cpa/wc\_cpa\_revenue.py
- 170.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/ad breaks/viewer/instream user dap.py
- 171.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/ad breaks/viewer/user impression metrics.py
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- 173.fbsource/fbcode/dataswarm-pipelines/tasks/ad\_metrics/ad\_metrics/tingxu/autoflow\_csbqrt\_analysis\_bundle3\_signal\_loss.py
- 174.fbsource/fbcode/dataswarm-pipelines/tasks/ad\_metrics/ad\_quality/afi/afi\_with\_quality\_prediction.py
- 175.fbsource/fbcode/dataswarm-pipelines/tasks/ad\_metrics/ad\_quality/awr\_tracking/cs5\_awr\_tracking\_by\_survey\_type.py
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- 180.fbsource/fbcode/dataswarm-pipelines/tasks/ad\_metrics/ad\_quality/oops/oops\_metric.py
- 181.fbsource/fbcode/dataswarm-pipelines/tasks/ad\_metrics/adbreak\_video\_aspectratio\_duration/adbreak\_video\_aspectratio\_duration.py
- 182.fbsource/fbcode/dataswarm-pipelines/tasks/ad\_metrics/adfc/heuristic\_engine/datatype\_heuristics/job\_data/manual\_insert\_root\_fields\_data.py
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- 184.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/admetrics/ad convs annotated v2/configs/data loader schema.py
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- 186.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/admetrics/ad convs annotated v2/configs/sql config.py
- 187.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/admetrics/ad convs annotated v2/configs/utils.py
- 188.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/admetrics/ad convs annotated v2/generate ad convs annotated non inline.py
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- 190.fbsource/fbcode/dataswarm-pipelines/tasks/ad\_metrics/admetrics/adsCanonicalTables/imp\_lifecycle\_unsampled.py
- 191.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/admetrics/adsCanonicalTables/loader util.py
- 192.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/admetrics/attribution id v2 log qual val track daily.py
- 193.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/admetrics/ctc/ctc data pipeline.py
- 194.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/admetrics/monetization efficiency/daily endpoint revenue.py
- 195.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/admetrics/watch instream ad gap.py
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- 199.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/adprefs/user to clicked ad pages daily.py
- 200.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/adreview/cloaking/high cloaking user imp accounts.py
- 201.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/adreview/impressions.py
- 202.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/adreview/political/ad imps annotated for sampling.py
- 203.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/ads bi/ads solutions master.py
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- 205.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/ads bi/dashboard assets/da travel assets/etl trip prospecting 2017.py
- 206.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/ads core datasets/ad levels/staging/ad estimated conversions.py
- 207.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/ads core datasets/admarket daily ad sum.py
- 208.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/ads core datasets/admarket daily metrics staging split/tables.py
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- 211.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/ads creative metrics/fct aco ad performance.py
- 212.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/ads delivery/imps clks conv tmz.py
- 213.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/ads dynamism/unified large scale test analysis.py
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- 215.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/ads ecosystem/demand grt nov 2021.py
- 216.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/ads explainability/waist latency pipeline.py
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- 218.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/ads personalization/graph learning feature framework/ugp config.py
- 219.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/ads ranking/personalization/safe/downsample ad imps annotated ad metrics.py
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- 226.fbsource/fbcode/dataswarm-pipelines/tasks/ad\_metrics/ads\_solutions/common/macros.py
- 227.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/ads solutions/creative solutions/showreel creative solutions/stg showreel user imps.py
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- 230.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/adstudy/rogue ads v2.py
- 231.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/advertiser experience/aa variance imp agg.py
- 232.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/advertiser experience/new duplicates/aa variance imp agg.py
- 233.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/advertiser experience/new duplicates/aa variance stage2 longitudinal.py
- 234.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/advertiser value score/imp level value score ch.py
- 235.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/advertiser value score/value score meta.py
- 236.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/aep/modeled attribution/app/app events with attribution click.py
- 237.fbsource/fbcode/dataswarm-pipelines/tasks/ad\_metrics/aep/modeled\_attribution/app/const.py
- 238.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/aep/modeled attribution/app/retrieval.py
- 239.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/ama/ama ct roi analysis.py
- 240.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/auction ds/7dclicks calib logic.txt
- 241.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/auction ds/fraud ip users/fraud ip monitor.py
- 242.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/auction ds/hscroll/hscroll imps.py
- 243.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/auction ds/roi curves/country roi curves.py
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- 245.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/auction ds/weekly oc data/weekly country data.py
- 246.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/audience analysis/daily ad impressions clicks.py
- 247.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/audience network/ads quality.py
- 248.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/audience network/gff/ad network clicks annotated gff.py
- 249.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/audience network/gff/ad network clicks browser metric gff.py
- 250.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/audience network/gff/ad network imps annotated gff.py
- 251.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/audience network/insert adnw fb instream calypso backfill stg.py
- 252.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/basic ads/basic ads clks imps with ppf policy.py
- 253.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/basic ads/user control metric/basic ads user control user imps.py
- 254.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/brand awareness/earl brand lift monitoring/aggregate earl by ad id.py
- 255.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/brand awareness/internal polling ad imps annotated.py
- 256.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/brand awareness/internal polling campaign results.py
- 257.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/brand awareness/internal polling experiment campaign metrics.py
- 258.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/brand awareness/internal polling holdout opportunities.py
- 259.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/brand awareness/internal polling responses.py
- 260.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/brand safety/content understanding/brand safety cu ad breaks mislabel info.py
- 261.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/brand safety/content understanding/live ads/live ads video daily aggregation.py
- 262.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/brand safety/data scientist/combined metric evaluation.py
- 263.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/brand safety/dcs/dcs ad imps annotated.py
- 264.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/brand safety/dcs/dcs ad imps leakage detection.py
- 265.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/brand safety/dcs/dcs revenue pipeline.py
- 266.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/brand safety/instream video/ad delivery reporting.py
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measurement daily random sampling.py 275.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/brand safety/negative keywords/nkw leakage detection.py 276.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/brand safety/reach estimator/brand safety instream publisher user mapping.py 277.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/brand safety/reach estimator/brand safety inventory filter user mapping.py 278.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/brand safety/reels/fct reels blocklist leaks.py 279.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/brand safety/reels/reels ad delivery reporting.py 280.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/brand safety/reels/reels ads ad imps annotated.py 281.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/brand safety/reels/reels pages daily random sampling bdr.py 282.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/brand safety/topic exclusion/brand safety harvest vod fcu labels.py 283.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/brand safety/topic exclusion/brand safety topic exclusion daily stat.py 284.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/brand safety/topic exclusion/brand safety topic exclusion samples for query.py 285.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/brand safety/topic exclusion/topic exclusion impression delivery.py 286.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/business integrity/ads integrity/ads integrity pnfr pvil prevalence source.py 287.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/business integrity/business manager integrity/user ad clicks tracking datelist.py 288.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/business integrity/si flagged accounts ad stats.py 289.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/ccmp/media content/payout/ccmp mcp music data preparation dag.py 290.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/ccmp/media content/payout/ccmp mcp payout data preparation dag.py 291.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/ccmp/sticker ads/payout/ccmp sticker ads payout dag.py 292.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/cde/event staging.py 293.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/cds data validation/data source configs/ad clks annotated validation config.py 294.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/cds data validation/data source configs/ad imps annotated in oba scope validation config.py 295.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/cds data validation/data source configs/ad imps annotated out of oba scope validation config.py 296.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/cds data validation/data source configs/validation config.pv 297.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/civic integrity/segmentation/socio segment political ad exposure.py 298.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/click to messaging/ctmessaging destination optimization feature.py 299.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/click to messaging/lib/optimization metrics.py 300.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/cpas/full funnel attr.py 301.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/cpas/local delivery.py 302.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/cpas/local delivery location targeting monitoring.py 303.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/cpas/managed partner ads deduplication.py 304.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/cpas/multi producer attribution.py 305.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/creator eligibility/v2/mes partner programs/mes partner programs.py 306.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/cross surface value/aggregate metrics.py 307.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/cross surface value/base tables.py 308.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/cross surface value/conversion type map.py 309.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/cross surface value/experiment mapping.py 310.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/cross surface value/imp level revenue.py 311.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/cross surface value/qrt mapping.py 312.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/crow/crow2/markets/markets pvil sampling apac.py

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- 316.fbsource/fbcode/dataswarm-pipelines/tasks/ad\_metrics/crow/crow2/prevalence/metrics/ig\_story\_pvil.py
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- 318.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/crow/crow2/prevalence/metrics/pvil.py
- 319.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/crow/crow2/prevalence/metrics/sexual pvil.py
- 320.fbsource/fbcode/dataswarm-pipelines/tasks/ad\_metrics/ctm\_leadgen/lead\_ad\_do\_inital\_targeting\_segment.py
- 321.fbsource/fbcode/dataswarm-pipelines/tasks/ad\_metrics/curated\_ads\_data/aggregation/cds\_static\_ad\_parent\_ids.py
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- 324.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/da/da user item onsite activity/da user item onsite activity.py
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- 326.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/da/daem/davs kg imps clks convs.py
- 327.fbsource/fbcode/dataswarm-pipelines/tasks/ad\_metrics/da/vehicles/daa\_user\_vehicle\_onsite\_events.py
- 328.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/da analytics/ad request candidates.py
- 329.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/da analytics/ara split test adconv event.py
- 330.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/da analytics/da advertiser audience reach.py
- 331.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/dashboard/dashboard daily metrics.py
- 332.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/dashboard/dashboard daily metrics based log time.py
- 333.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/dco/dco ads score gain.py
- 334.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/dco/dof text adoption.py
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- 336.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/dpa analytics/dpa ads feedback.py
- 337.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/dpa ranking/dpa ar ads data collection.py
- 338.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/dpa training/dpa user product ads history.py
- 339.fbsource/fbcode/dataswarm-pipelines/tasks/ad\_metrics/dpa\_training/feature aggregation per product set.py
- 340.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/elections integrity/political page report rates.py
- 341.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/enterprise marketing/on platform internal clicks.py
- 342.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/enterprise marketing/on platform internal impressions.py
- 343.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/entity id selection/entity id selection impression hourly.py
- 344.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/f3/prod/ads/native batch/master/cds click.py
- 345.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/f3/prod/ads/native batch/master/click.py
- 346.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/f3/prod/ads/native batch/master/click 7d8141 view.py
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- 353.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/f3/prod/ads/native batch/master/impression.py
- 354.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/f3/prod/basic ads/native batch/master/click.py
- 355.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/f3/prod/basic ads/native batch/master/impression.py
- 356.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/f3/prod/cds/native batch/master/click.py
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401.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/feed ads/ads comment reranking/sponsored post impression tbl.pv 402.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/feed ads/cam foundation/ad blocker detector.py

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- 404.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/feed ads/click to call/ctc imp regular qrt analysis.py
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- $406. fb source/fb code/datas warm-pipelines/tasks/ad\_metrics/feed\_ads/emerging\_surface/bucket\_ratio\_sample.py$
- 407.fbsource/fbcode/dataswarm-pipelines/tasks/ad\_metrics/feed\_ads/emerging\_surface/per\_component\_bucket\_ratio\_sample.py
- 408.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/feed ads/emerging surface/per component surface qrd.py
- 409.fbsource/fbcode/dataswarm-pipelines/tasks/ad\_metrics/feed\_ads/emerging\_surface/surface\_qrd.py
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- 412.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/feed ads/fb shop ads/onsite checkout da carousel ads hhi click to pdp.py
- 413.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/feed ads/instant article/instant articles rpm pipeline.py
- 414.fbsource/fbcode/dataswarm-pipelines/tasks/ad\_metrics/feed\_ads/lead\_ads/lead\_generation\_solution\_segment.py
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- 416.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/feed ads/user ad bid components.py
- 417.fbsource/fbcode/dataswarm-pipelines/tasks/ad\_metrics/feed\_ads/user\_eng/scpi\_experiment.py
- 418.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/feed ads quality/ad imps country page type.py
- 419.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/feed ads quality/ad lwnf tracking.py
- 420.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/feed ads quality/ads measurement repetition rule violation.py
- 421.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/feed ads quality/ads measurement xout rule violation.py
- 422.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/feed ads quality/user eais aggregation.py
- 423.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/fgf/datelist/mp user ads clicks datelist.py
- 424.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/fgf/datelist/mp user category ads clicks datelist.py
- 425.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/forensics/website clicks.sql
- 426.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/gbm/ads/gbm ad account impressions.py
- 427.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/gff/generate master table special events.py
- 428.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/gff/generate skew keys.py
- 429.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/gff/gff utils.py
- 430.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/gff/shadow generate master table.py
- 431.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/gsf/link click/link click ratio.py
- 432.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/gsf/user zip code/user country zip hash.py
- 433.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/hassantraining/cta shopnow userclicks.py
- 434.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/holistic communication/hc house ads.py
- 435.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/identity/itp/num distinct users per ip.py
- 436.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/identity/prediction/ip sequencing/prepare ip fb.py
- 437.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/identity/prediction/ppaca/ip switch index latest hour.py
- 438.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/identity/s2s/user ip type.py
- 439.fbsource/fbcode/dataswarm-pipelines/tasks/ad\_metrics/impression\_qrt/extra\_columns.py
- 440.fbsource/fbcode/dataswarm-pipelines/tasks/ad\_metrics/insights/cocoon/fact\_table/delivery\_opt/hourly\_delivery\_placement.py
- 441.fbsource/fbcode/dataswarm-pipelines/tasks/ad\_metrics/insights/metric\_consistency/instagram\_explore\_showreel\_ad\_ids\_pipeline.py
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- 443.fbsource/fbcode/dataswarm-pipelines/tasks/ad\_metrics/instagram/ig\_ad\_clks\_annotated.py
- 444.fbsource/fbcode/dataswarm-pipelines/tasks/ad\_metrics/instagram/ig\_ad\_imps\_annotated.py
- 445.fbsource/fbcode/dataswarm-pipelines/tasks/ad\_metrics/instagram\_ads/demand\_based\_ad\_load/instagram\_ads\_country\_cpm\_qdigest.py
- 446.fbsource/fbcode/dataswarm-pipelines/tasks/ad\_metrics/instagram\_ads/diversity/ig\_ads\_diversity\_proxy\_metrics.py
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- 450.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/instagram ads/ig ad history/ig user to clicked ads daily.py
- 451.fbsource/fbcode/dataswarm-pipelines/tasks/ad\_metrics/instagram\_ads/ig\_ads\_count\_per\_megataxon\_category.py
- 452.fbsource/fbcode/dataswarm-pipelines/tasks/ad\_metrics/instagram\_ads/igbv/igda/ig\_da\_ads\_details.py
- 453.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/instant article ads/all instant article imps.py
- 454.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/instant article ads/instant article ad imps annotated.py
- 455.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/instream ads/instream ads completion rate.py
- 456.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/instream ads/instream ads per wh vpi.py
- 457.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/instream ads/instream ads skippable.py
- 458.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/instream ads/sales rights/sales rights forecast verification.py
- 459.fbsource/fbcode/dataswarm-pipelines/tasks/ad\_metrics/instream\_ads/sales\_rights/sales\_rights\_freq\_cap\_calculation.py
- 460.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/instream\_ads/sales\_rights/sales\_rights\_inventory\_management\_bound.py
- 461.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/instream ads/sales rights/sales rights inventory management segments.py
- 462.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/instream ads/stg scuba ad pod for cv model.py
- 463.fbsource/fbcode/dataswarm-pipelines/tasks/ad\_metrics/instream\_ads/user\_exposure\_pool\_exposure\_pool\_nonlive\_user\_turnover.py
- 464.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/instream live/instream ads gap analysis.py
- 465.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/instream user imp host events/instream user imp host events.py
- 466.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/integrity/ad review/political ad imp demos.py
- 467.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/integrity/fb reels stickers monetization sampling for srt.py
- 468.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/intent/onsite/ads impression.py
- 469.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/intent/onsite/ads interaction.py
- 470.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/intent/onsite/messenger inbox user click.py
- 471.fbsource/fbcode/dataswarm-pipelines/tasks/ad\_metrics/interest\_vector/interest\_vector\_inference.py
- 472.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/interest vector/interest vector ppf derive clks.py
- 473.fbsource/fbcode/dataswarm-pipelines/tasks/ad\_metrics/interest\_vector/interest\_vector\_ppf\_derive\_imps\_clks.py
- 474.fbsource/fbcode/dataswarm-pipelines/tasks/ad\_metrics/long\_attr\_win/law\_calibration\_alerts.py
- $475. fb source/fb code/datas warm-pipelines/tasks/ad\_metrics/long\_attr\_win/law\_impressions\_aggregated.py$
- 476.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/market dynamics/pacing spike generation.py
- 477.fbsource/fbcode/dataswarm-pipelines/tasks/ad\_metrics/marketing\_insights/fct\_cm\_ad\_imps.py
- 478.fbsource/fbcode/dataswarm-pipelines/tasks/ad\_metrics/marketing\_insights/marketplace/mp\_dpa\_clicks\_users.py
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- 480.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/measurement/nielsen/fb nielsen ocr campaign impressions.py
- 481.fbsource/fbcode/dataswarm-pipelines/tasks/ad\_metrics/megataxon/basic\_ads\_sizing/tfidf\_source.py
- 482.fbsource/fbcode/dataswarm-pipelines/tasks/ad\_metrics/megataxon/megataxon\_dashboard\_ad\_imps.py
- 483.fbsource/fbcode/dataswarm-pipelines/tasks/ad\_metrics/megataxon/megataxon\_slim\_labels.py
- 484.fbsource/fbcode/dataswarm-pipelines/tasks/ad\_metrics/messaging\_ads/ctm\_anonymization/ctm\_adconv\_anon\_pipeline.py
- 485.fbsource/fbcode/dataswarm-pipelines/tasks/ad\_metrics/messaging\_ads/messaging\_ads\_clks\_annotated.py
- 486.fbsource/fbcode/dataswarm-pipelines/tasks/ad\_metrics/messaging\_ads/messaging\_ads\_imps\_annotated.py
- $487. fbsource/fbcode/dataswarm-pipelines/tasks/ad\_metrics/messenger\_ads/ads\_quality/messenger\_inbox\_oops\_metrics.py$
- 488.fbsource/fbcode/dataswarm-pipelines/tasks/ad\_metrics/messenger\_ads/messenger\_inbox\_ad\_clks\_annotated\_filtered.py 489.fbsource/fbcode/dataswarm-pipelines/tasks/ad\_metrics/messenger\_ads/messenger\_inbox\_ad\_imps\_annotated\_filtered.py
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- 492.fbsource/fbcode/dataswarm-pipelines/tasks/ad\_metrics/messenger\_ads/replies\_optimization\_analysis.py

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538.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/grt/main/ prod /common/precomp columns.py
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566.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/restaurant/restaurant ads metadata.pv
567.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/revenue360/ad daily revenue by delivery ad.py
568.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/rf/ad imps buying type rf.py
569.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/rights manager/music monetization experiment/viewer count daily.py
570.fbsource/fbcode/dataswarm-pipelines/tasks/ad_metrics/roas/stage1_roas_bqrt_eval.py
571.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/roas/stage2 roas bgrt eval.py
572.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/sampled data/ad metrics sampled data.py
573.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/search ads/impression vol check by version.py
574.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/search ads/search ads dashboard.py
575.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/search ads/select query ad pairs by ctr for rating.py
576.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/sentinel/sentinel adstudy imps.py
577.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/shop tab smoke test/dlt dpa clicks.py
578.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/signal loss/debiaser analyst/debiaser production/debiaser epd att training data.py
579.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/signal loss/debiaser analyst/debiaser production/debiaser prod training data.py
580.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/signal loss/debiaser analyst/lib/query lib.py
581.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/signal loss/debiaser analyst/preprocessing/create activeness feature.py
582.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/signal loss/debiaser analyst/preprocessing/preprocess input tables.py
```

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583.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/signal loss/debiaser analyst/validation/discriminator/discriminator data.py 584.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/signal loss/debiaser analyst/validation/historical gt conv data.py 585.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/signal loss/debiaser analyst/validation/historical gt data.py 586.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/signal loss/debiaser analyst/validation/historical gt data anon.py 587.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/signal loss/debiaser analyst/validation/historical gt data daily.py 588.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/signal loss/debiaser analyst v2/domains.py 589.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/signal loss/debiaser analyst v2/experiments.py 590.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/signal loss/debiaser analyst v2/user opt in simulation/etld plus one features task.py 591.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/signal loss/debiaser analyst v2/user opt in simulation/user level task.py 592.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/signal loss/debiaser split training data.py 593.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/signal loss/holdout cost measurement/holdout user att epd status.py 594.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/signals/app events/aep/ad clks annotated model attribution.py 595.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/signals/app events/aep/ad clks annotated model attribution hourly.py 596.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/signals/app events/click id/click id simulation table v2.py 597.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/signals/app events/skan/validation tool/skan validation tool gt install events.py 598.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/signals/ecosystem/ios145 ebr model/cvr.py 599.fbsource/fbcode/dataswarm-pipelines/tasks/ad\_metrics/signals/ecosystem/ios145\_ebr\_model/postloss.py 600.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/signals/ecosystem/stg ads metrics lite.py 601.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/signals/private aggregation/stg ad imps annotated mpc.py 602.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/signals/product intents/signal dpa link click.py 603.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/solutions engineering/ad imps analysis experimental.py 604.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/solutions engineering/zip level reporting/universal pictures zip level reporting.py 605.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/targeting/adfinder vs imp/adrequests vs impression.py 606.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/targeting/custom audience/ca exclusion tracking.py 607.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/targeting/dynamic ab deliver/ab eval prod v2.py 608.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/targeting/dynamic ab deliver/ab eval qrt v2.py 609.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/targeting/geo/ad impressions aggregated by city.py 610.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/targeting/geo/ad impressions aggregated by postcode.py 611.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/targeting/geo/count active users in cities.py 612.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/targeting/geo/impression outside target regions home only/gen ad impressions aggregated by adid city.py 613.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/targeting/keywords/f3/ad engagement interests.py 614.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/targeting/keywords/recommendation library/recommendation based on codelivery.py 615.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/targeting/lookalikes/apple pixel user.py 616.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/targeting/lookalikes/lal all ads/lookalike imp with weight.py 617.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/targeting/lookalikes/seed prep/lookalike custom audience with weight.py 618.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/targeting/performance/delivery stats summary.py 619.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/targeting/performance/targeting conversions associated.py 620.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/targeting/unconstraint targeting/dtaas metrics.py 621.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/targeting/unconstraint targeting/fct all ads inside outside delivery stats.py 622.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/targeting/unconstraint targeting/lalaas metrics.py 623.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/targeting ranking/analysis marsci abo.py 624.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/traffic quality/mrc review impression interval analysis.py 625.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/traffic quality/tq iab bad ip check sample.py 626.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/travel/related ads/travel related ads.py 627.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/travel/related ads/user travel adlist.py

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- 628.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/travel/travel ads metadata.py
- 629.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/uhm/uhm ads onsite impression history.py
- 630.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/user value metrics/sponsored label in footer.py
- 631.fbsource/fbcode/dataswarm-pipelines/tasks/ad\_metrics/user\_value\_metrics/user\_value\_metric\_larger\_carousel\_exp.py
- 632.fbsource/fbcode/dataswarm-pipelines/tasks/ad\_metrics/vertical\_ranking/vertical\_ad\_level\_graph\_learning/vertical\_user\_entity\_engagement.py
- 633.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/verticalization/filter ranking output data.py
- 634.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/video ads/ad breaks sentiment/instream ads event features.py
- 635.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/video ads/instream/commercial break revenue onsite.py
- 636.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/video ads/instream ads payout/payout v1/data preparation/instream ads payout daily earnings.py
- 637.fbsource/fbcode/dataswarm-pipelines/tasks/ad\_metrics/video\_ads/instream\_ads\_payout/raw\_ads\_logging/instream\_ads\_ad\_imps\_annotated.py
- 638.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/video ads/instream ads payout/raw ads logging/instream sales rights ads ad imps annotated.py
- 639.fbsource/fbcode/dataswarm-pipelines/tasks/ad\_metrics/video\_ads/instream\_ads\_payout/reporting/instream\_aggregated\_campaign\_level\_daily\_imps\_extractor.py
- 640.fbsource/fbcode/dataswarm-pipelines/tasks/ad\_metrics/video\_ads/partner\_feeds/audience\_network/an\_video\_imps\_hourly.py
- 641.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/video ads/partner feeds/partner video imps hourly.py
- 642.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/video ads/unified metrics auditor/dynamic sampling system/generate long tail breakdowns.py
- 643.fbsource/fbcode/dataswarm-pipelines/tasks/ad metrics/video ads/unified metrics auditor/sampling breakdown generator.py
- 644.fbsource/fbcode/dataswarm-pipelines/tasks/ad\_metrics/x\_vertical/x\_vertical\_entity\_features\_source.py
- 645.fbsource/fbcode/dataswarm-pipelines/tasks/adsatlas/mr/mmt common/nrmse/reach harmony.py
- 646.fbsource/fbcode/dataswarm-pipelines/tasks/adsatlas/signals/private aggregation/private matching ads view preparation.py
- 647.fbsource/fbcode/dataswarm-pipelines/tasks/aml/world2vec/world2vec implicit large.py
- 648.fbsource/fbcode/dataswarm-pipelines/tasks/bi/ads/fblite revenue degraded service.py
- 649.fbsource/fbcode/dataswarm-pipelines/tasks/bi/ads core datasets/ad levels/all ads details.py
- 650.fbsource/fbcode/dataswarm-pipelines/tasks/bi/ads core datasets/fct ad reach frequency/fct ad reach frequency.py
- 651.fbsource/fbcode/dataswarm-pipelines/tasks/bi/auction/amcostel/da creative fatigue windows.py
- 652.fbsource/fbcode/dataswarm-pipelines/tasks/bi/bi privacy/basic ads lineage.py
- 653.fbsource/fbcode/dataswarm-pipelines/tasks/bi/feed\_ads\_crowdsource\_survey/lp5\_survey\_breakdown.py
- $654. fbsource/fbcode/dataswarm-pipelines/tasks/bi/feed\_ads\_crowdsource\_survey/sample\_ads.py$
- 655.fbsource/fbcode/dataswarm-pipelines/tasks/bi/gbm/gbm\_fct\_video\_ads\_imp\_playback.py
- 656.fbsource/fbcode/dataswarm-pipelines/tasks/bi/lwi/lwi\_ad\_perf.py
- 657.fbsource/fbcode/dataswarm-pipelines/tasks/bi/marketplace\_ads/mp\_boosted\_listings\_seller\_ads.py
- 658.fbsource/fbcode/dataswarm-pipelines/tasks/bi/messenger\_ads/messenger\_inbox\_ads\_summary\_by\_user.py
- 659.fbsource/fbcode/dataswarm-pipelines/tasks/bi/mi/ios14\_revenue\_tracking\_hourly.py
- 660.fbsource/fbcode/dataswarm-pipelines/tasks/bi/revenue/monetization/imp lifecycle.py
- 661.fbsource/fbcode/dataswarm-pipelines/tasks/bi/rnd partner analytics/solutions metadata/metadata collection.py
- 662.fbsource/fbcode/dataswarm-pipelines/tasks/commerce/ranking/shops\_mall/ppfy/shops\_growth\_krnn.py
- 663.fbsource/fbcode/dataswarm-pipelines/tasks/commerce/ranking/shops\_mall/ppfy/shops\_product\_event\_counters.py
- 664.fbsource/fbcode/dataswarm-pipelines/tasks/di/ai\_infra/privacy/ml\_deletion.py
- 665.fbsource/fbcode/dataswarm-pipelines/tasks/di/legal\_hold/legal\_hold\_compendium\_alert/legal\_hold\_compendium\_alert\_tables\_v2.py
- 666.fbsource/fbcode/dataswarm-pipelines/tasks/finance/cde/docs/data\_flow\_chart.gv
- 667.fbsource/fbcode/dataswarm-pipelines/tasks/finance/cde/docs/data\_flow\_chart.gv.svg
- 668.fbsource/fbcode/dataswarm-pipelines/tasks/finance\_products/revenue360/allocation/ad\_imps\_ratio\_for\_delivery\_country\_page\_type\_daily\_est\_history.py
- 669.fbsource/fbcode/dataswarm-pipelines/tasks/growth/detection\_audit/false\_positives\_reduction/type2\_results\_dpo\_ingest.py
- 670.fbsource/fbcode/dataswarm-pipelines/tasks/instagram/ads/ads\_and\_commerce\_quality/user\_shop\_tabs\_features/ig\_user\_shop\_tabs\_features\_per\_source.py
- 671.fbsource/fbcode/dataswarm-pipelines/tasks/instagram/ads/ads meaningful engagement.py
- 672.fbsource/fbcode/dataswarm-pipelines/tasks/instagram/ads/asq\_survey/ig\_ads\_asq\_oops\_with\_breakdown\_info.py

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- 673.fbsource/fbcode/dataswarm-pipelines/tasks/instagram/ads/asq\_survey/metrics/asq\_metric\_tracking.py
- 674.fbsource/fbcode/dataswarm-pipelines/tasks/instagram/ads/awr/model assist sampling/oops sampled ads with idx country.py
- 675.fbsource/fbcode/dataswarm-pipelines/tasks/instagram/ads/awr/model assist sampling/oops sampled ads with idx pipelines.py
- 676.fbsource/fbcode/dataswarm-pipelines/tasks/instagram/ads/demand\_metrics/demand\_eligibility.py
- 677.fbsource/fbcode/dataswarm-pipelines/tasks/instagram/ads/dynamic ads/get product imps xouts reports.py
- 678.fbsource/fbcode/dataswarm-pipelines/tasks/instagram/ads/dynamic ads/proxy metric qrt support.py
- 679.fbsource/fbcode/dataswarm-pipelines/tasks/instagram/ads/fct device ad metrics.py
- 680.fbsource/fbcode/dataswarm-pipelines/tasks/instagram/ads/fct\_user\_ad\_metrics.py
- 681.fbsource/fbcode/dataswarm-pipelines/tasks/instagram/ads/ig ads annotated.py
- 682.fbsource/fbcode/dataswarm-pipelines/tasks/instagram/ads/ig ads bumping.py
- 683.fbsource/fbcode/dataswarm-pipelines/tasks/instagram/ads/ig ads creatives supply metrics.py
- 684.fbsource/fbcode/dataswarm-pipelines/tasks/instagram/ads/ig ads delivery hidden ad duration checking.py
- 685.fbsource/fbcode/dataswarm-pipelines/tasks/instagram/ads/ig ads diversity rule checking.py
- 686.fbsource/fbcode/dataswarm-pipelines/tasks/instagram/ads/ig ads quality user asq personalization data.py
- 687.fbsource/fbcode/dataswarm-pipelines/tasks/instagram/ads/ig promoted post/lookalikes/seed prep/lookalike ig promoted post prepare expanded seed.py
- 688.fbsource/fbcode/dataswarm-pipelines/tasks/instagram/ads/igbv/igre/fct\_igre\_user\_engagement\_ad\_metrics.py
- 689.fbsource/fbcode/dataswarm-pipelines/tasks/instagram/ads/oops/bad\_ad\_exposure\_analysis/country\_avg\_bad\_imp\_rate.py
- 690.fbsource/fbcode/dataswarm-pipelines/tasks/instagram/ads/oops/ig ads imps per qe.py
- 691.fbsource/fbcode/dataswarm-pipelines/tasks/instagram/ads/oops/ig ads imps per qrt.py
- 692.fbsource/fbcode/dataswarm-pipelines/tasks/instagram/ads/oops/metric/bad impression rate anchored on feed.py
- 693.fbsource/fbcode/dataswarm-pipelines/tasks/instagram/ads/oops/metric/bad impression rate anchored on feed or on story.py
- 694.fbsource/fbcode/dataswarm-pipelines/tasks/instagram/ads/ranking/creator voice graph/generate user brand stage table.py
- 695.fbsource/fbcode/dataswarm-pipelines/tasks/instagram/ads/ranking/diversity/ig ads author taxonomy.py
- 696.fbsource/fbcode/dataswarm-pipelines/tasks/instagram/ads/ranking/diversity/ig\_ads\_diversity\_features.py
- 697.fbsource/fbcode/dataswarm-pipelines/tasks/instagram/ads/ranking/diversity/ig ads diversity category xout.py
- 698.fbsource/fbcode/dataswarm-pipelines/tasks/instagram/ads/ranking/diversity/ig\_ads\_objective\_repetition\_status.py
- 699.fbsource/fbcode/dataswarm-pipelines/tasks/instagram/ads/ranking/diversity/ig ads repetiton status monitor pipeline.py
- 700.fbsource/fbcode/dataswarm-pipelines/tasks/instagram/ads/ranking/generate ig author paired branded content creators media.py
- 701.fbsource/fbcode/dataswarm-pipelines/tasks/instagram/ads/ranking/populate ads interactions daily summary.py
- 702.fbsource/fbcode/dataswarm-pipelines/tasks/instagram/ads/ranking/populate ads reconsideration ads history.py
- 703.fbsource/fbcode/dataswarm-pipelines/tasks/instagram/ads/ranking/populate ig ads event engagement 2 idscorelist.py
- 704.fbsource/fbcode/dataswarm-pipelines/tasks/instagram/ads/ranking/populate ig ads event engagement idscorelist.py
- 705.fbsource/fbcode/dataswarm-pipelines/tasks/instagram/ads/ranking/populate ig author taxonomy expansion.py
- 706.fbsource/fbcode/dataswarm-pipelines/tasks/instagram/ads/ranking/populate ig organic event engagement idscorelist.py
- 707.fbsource/fbcode/dataswarm-pipelines/tasks/instagram/ads/ranking analysis/xray v10 v11 similarity.py
- 708.fbsource/fbcode/dataswarm-pipelines/tasks/instagram/ads and commerce quality/ig ads advertiser impact.py
- 709.fbsource/fbcode/dataswarm-pipelines/tasks/instagram/ads and commerce quality/ig ads clks per qrt.py
- 710.fbsource/fbcode/dataswarm-pipelines/tasks/instagram/ads and commerce quality/ig ads oops with eroh data.pv
- 711.fbsource/fbcode/dataswarm-pipelines/tasks/instagram/ads and commerce quality/interest/ig user interest quality stats fast.py
- 712.fbsource/fbcode/dataswarm-pipelines/tasks/instagram/ads and commerce quality/robi/comments/ig mlex comments scored annotated.py
- 713.fbsource/fbcode/dataswarm-pipelines/tasks/instagram/awe/tracking awe utils.py
- 714.fbsource/fbcode/dataswarm-pipelines/tasks/instagram/core/ad\_page\_type.py
- 715.fbsource/fbcode/dataswarm-pipelines/tasks/instagram/core/users.py
- 716.fbsource/fbcode/dataswarm-pipelines/tasks/instagram/destination automation/destination automation sub ad features.py
- 717.fbsource/fbcode/dataswarm-pipelines/tasks/instagram/ig ppfy/candidates/ig ppfy ads 1pd popularity.py

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- 718.fbsource/fbcode/dataswarm-pipelines/tasks/instagram/ig\_ppfy/candidates/ig\_ppfy\_ads\_1pd\_product\_checkout.py
- 719.fbsource/fbcode/dataswarm-pipelines/tasks/instagram/ig\_syml/candidates/ig\_syml\_ads\_1pd\_popularity.py
- 720.fbsource/fbcode/dataswarm-pipelines/tasks/instagram/suggested\_accounts/gen\_country\_bidding\_multiplier.py
- 721.fbsource/fbcode/dataswarm-pipelines/tasks/locations/locsig/geoentity/business\_less\_than\_1k.py
- 722.fbsource/fbcode/dataswarm-pipelines/tasks/locations/locsig/geoentity/user\_top\_converted\_tile\_daily.py
- 723.fbsource/fbcode/dataswarm-pipelines/tasks/measurementsystems/comet/user comet homepage stats.py
- 724.fbsource/fbcode/dataswarm-pipelines/tasks/measurementsystems/cvi/misinfo/singapore content vpv.py
- 725.fbsource/fbcode/dataswarm-pipelines/tasks/measurementsystems/integrity/sessions proxy/sessions product metrics config.py
- 726.fbsource/fbcode/dataswarm-pipelines/tasks/messages/messenger ads/messenger inbox lowrev users.py
- 727.fbsource/fbcode/dataswarm-pipelines/tasks/pages/vertical solutions monetization/vs daily attributed transactions by ads.py
- 728.fbsource/fbcode/dataswarm-pipelines/tasks/platform/ad network/alternative app stores/direct app install funnel.py
- 729.fbsource/fbcode/dataswarm-pipelines/tasks/platform/ad network/an frequency capping stats.py
- 730.fbsource/fbcode/dataswarm-pipelines/tasks/platform/ad\_network/analytics/dim\_ad\_to\_blocked\_publisher.py
- 731.fbsource/fbcode/dataswarm-pipelines/tasks/platform/ad network/analytics/fct adbreaks blocklist leaks.py
- 732.fbsource/fbcode/dataswarm-pipelines/tasks/platform/ad\_network/core/audience\_network\_imp\_click\_conv.py
- 733.fbsource/fbcode/dataswarm-pipelines/tasks/platform/ad\_network/core/audience\_network\_request\_imp\_click\_conv.py
- 734.fbsource/fbcode/dataswarm-pipelines/tasks/platform/ad\_network/core/stg\_audience\_network\_imp\_click\_conv.py
- 735.fbsource/fbcode/dataswarm-pipelines/tasks/platform/ad\_network/moma/adnw\_fb\_instream\_calypso\_stg.py
- 736.fbsource/fbcode/dataswarm-pipelines/tasks/platform/ad network/moma/adnw imps from hive to calypso.py
- 737.fbsource/fbcode/dataswarm-pipelines/tasks/platform/ad\_network/payout/an\_daily\_payout.py
- 738.fbsource/fbcode/dataswarm-pipelines/tasks/platform/ad\_network/pixel\_based\_pqs.py
- 739.fbsource/fbcode/dataswarm-pipelines/tasks/platform/audience network/an grt tables/an impression tables pipeline.py
- 740.fbsource/fbcode/dataswarm-pipelines/tasks/platform/audience network/logging/ad network click health.py
- 741.fbsource/fbcode/dataswarm-pipelines/tasks/platform/audience\_network/logging/ad\_network\_impression\_health.py
- 742.fbsource/fbcode/dataswarm-pipelines/tasks/platform/audience network/npa/dashboard/an npa ad metrics unmasked ip leakage metrics.py
- 743.fbsource/fbcode/dataswarm-pipelines/tasks/platform/bidding/adnw\_bidding\_historical\_ips.py
- 744.fbsource/fbcode/dataswarm-pipelines/tasks/platform/brand\_safety/block\_list\_metrics.py
- 745.fbsource/fbcode/dataswarm-pipelines/tasks/platform/games/fct\_ads\_clks\_imps\_event.py
- 746.fbsource/fbcode/dataswarm-pipelines/tasks/platform/neko/neko ad events.py
- 747.fbsource/fbcode/dataswarm-pipelines/tasks/platform/neko/sap\_creative/dim\_neko\_ads\_creative\_details.py
- 748.fbsource/fbcode/dataswarm-pipelines/tasks/platform/traffic\_quality/adnw/fgf/source\_tables/tq\_an\_idfa\_spoofing\_metrics.py
- 749.fbsource/fbcode/dataswarm-pipelines/tasks/platform/traffic\_quality/prevalence\_v0/sources/igtv\_source.py
- 750.fbsource/fbcode/dataswarm-pipelines/tasks/privacy/asset minimisation infra/common/asset xid types constants.py
- 751.fbsource/fbcode/dataswarm-pipelines/tasks/privacy/detection\_audit/dod\_usecases/utils/unlink\_hardlink\_util.py
- 752.fbsource/fbcode/dataswarm-pipelines/tasks/search/ads/analytics\_dashboard/generate\_top\_queries.py
- 753.fbsource/fbcode/dataswarm-pipelines/tasks/search/ads/analytics\_dashboard/search\_ads\_campaign\_datelist.py
- 754.fbsource/fbcode/dataswarm-pipelines/tasks/search/ads/analytics\_dashboard/search\_ads\_metrics.py
- 755.fbsource/fbcode/dataswarm-pipelines/tasks/search/ads/archive/pad\_counter\_features\_offline.py\_DEPRECATED
- 756.fbsource/fbcode/dataswarm-pipelines/tasks/search/ads/brand\_safety/brand\_safety\_bdr.py
- 757.fbsource/fbcode/dataswarm-pipelines/tasks/search/ads/query\_taxon/generate\_query\_cluster\_xray.py
- 758.fbsource/fbcode/dataswarm-pipelines/tasks/search/ads/related\_ads/search\_ads\_click\_counter.py
- 759.fbsource/fbcode/dataswarm-pipelines/tasks/security/automated\_malware/discovery/hip\_ad\_impressions.py
- 760.fbsource/fbcode/dataswarm-pipelines/tasks/si/imp/offline\_prevalence/source\_tables/shop\_ads\_pvil\_offline\_prevalence\_source.py
- 761.fbsource/fbcode/dataswarm-pipelines/tasks/si/integrity crawler/ads integrity clks offsite.py
- 762.fbsource/fbcode/dataswarm-pipelines/tasks/videos/core/fct\_video\_vpv\_consumption\_engagement.py

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763.fbsource/fbcode/dataswarm-pipelines/tasks/videos/instream ads/live ads/exposure pool live user turnover.py 764.fbsource/fbcode/dataswarm-pipelines/tasks/videos/rights manager/iab/rm yield metrics.py 765.fbsource/fbcode/dataswarm-pipelines/tasks/videos/scalable analytics/fct video product consumption.py 766.fbsource/fbcode/dataswarm-pipelines/tasks/videos/search/fct video search consumption.py 767.fbsource/fbcode/dataswarm-pipelines/tasks/whatsapp/monetization/discovery/ctwa/stg wa ctwa ad click event.pv 768.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad delivery/aa differences/continuity/reset history/ad imps annotated repetition.py 769.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad delivery/ads dynamism/unified feature verification enhanced.py 770.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad delivery/ads dynamism/unified feature verification utils.py 771.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad delivery/ads quality/ltae slate q/stg ltae slate q imp level features.py 772.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad delivery/ads quality insights/ads counterfactual measure with realized data.py 773.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad delivery/ads quality insights/counterfactual ad imps annotated.py 774.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad delivery/ads quality insights/counterfactual witness exp stats.py 775.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad delivery/ads quality insights/counterfactual witnessed measures ad agg.py 776.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad delivery/ads ranking/social feature injection.py 777.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad delivery/auction ds/sublinear retrieval/gen retrieval data.py 778.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad delivery/auction marginal cost/marginal cost simulation revenue aggregation.py 779.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad delivery/auction marginal cost/marginal cost simulation revenue aggregation by conv v2.py 780.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad delivery/basic ads ranking/clk daily interest vector user agg.py 781.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad delivery/basic ads ranking/create imp clk event with user interest vector.py 782.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad delivery/basic ads ranking/generate adtaxon i18n from imps.py 783.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad delivery/basic ads ranking/generate interest vector breakdown features.py 784.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad delivery/bid adjustment/format sample extractor.py 785.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad delivery/clarity and guidance/audience saturation/user account impression count 30 days initial.py 786.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad delivery/creative understanding/ctr model training table partitioned.py 787.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad delivery/deep funnel ranking/pco/generate experiments results.py 788.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad delivery/deep funnel ranking/pco/pco lal laq model comparison.py 789.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad delivery/feed ads/carousel/feature verification is collection.py 790.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad delivery/feed vpvd/bp ad imps annotated/etl process.py 791.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad delivery/instagram ads/campaign level onsite offsite analysis.py 792.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad delivery/instagram ads/destination automation onsite offsite impression distribution on campaign level.py 793.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad delivery/instagram ads/training piepelines/ads verticals opt/dynamic handle automation experiments analysis.py 794.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad delivery/intent/onsite/gen ad id equivalence key sequence training data.py 795.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad delivery/intent/onsite/gen ad id megataxon sequence training data.py 796.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad delivery/marketplace ads/marketplace ads tail load request analysis.py 797.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad delivery/megataxon/ads taxon model retrain.py 798.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad delivery/megataxon/megataxon sampling/megaentities ad entity labeling.py 799.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad delivery/model eval test/click reward estimation dummy.py 800.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad delivery/oba/step 4b dh pipelines.py 801.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad delivery/offline evaluation/evaluators/afmw/calibration.py 802.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad delivery/offline evaluation/evaluators/afmw/click curve dent.py 803.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad delivery/offline evaluation/evaluators/afmw/click reward estimation.py

804.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad delivery/offline evaluation/evaluators/afmw/consideration rewards downsample.py

806.fbsource/fbcode/dataswarm-pipelines/tasks\_adhoc/ad\_delivery/offline\_evaluation/evaluators/afmw\_prototype/main\_workflow.py 807.fbsource/fbcode/dataswarm-pipelines/tasks\_adhoc/ad\_delivery/offline\_evaluation/evaluators/ecpm\_component\_level\_compare.py

805.fbsource/fbcode/dataswarm-pipelines/tasks\_adhoc/ad\_delivery/offline\_evaluation/evaluators/afmw/testing.py

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808.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad delivery/pacing/ooc exploration/ooc simplified imps.py 809.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad delivery/quality ltae/insert stg ltae from ad imps annotated.py 810.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad delivery/quality ltae/insert stg ltae from join ad imps iab metrics.py 811.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad delivery/quality ltae/insert stg ltae from union ad imps ad convs.py 812.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad delivery/quality optimal allocation/ads quality org bid req level info imps.py 813.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad delivery/quality optimal allocation/imps joined by qe.py 814.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad delivery/quality optimal allocation/pqc oops user cohort.py 815.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad delivery/quality optimal allocation/shameli first pipeline.py 816.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad delivery/video ads/personalization/thumbnail consideration pipeline.py 817.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad delivery/video ads/personalization/training cropping pxn ctr mbl feed pipeline.py 818.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad delivery/video ads/personalization/training cropping pxn ctr mbl feed pipeline old.py 819.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad metrics/abp ads quality/sample ad histories from one week.py 820.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad metrics/abp ads quality/user state compute.py 821.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad metrics/adbid/fuss creative ad imps annotated.py 822.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad metrics/adconv/ad conv annotated spark.py 823.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad metrics/adconv/per event model/ad conv opt spec daily.py 824.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad metrics/adconv/user pixel id history aggregator.py 825.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad metrics/adconv/utils for spark.py 826.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad metrics/admarket/admarket daily metrics spark.py 827.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad metrics/admetrics/ads per request info.py 828.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad metrics/ads dynamism/aco large scale experiment analysis.py 829.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad metrics/ads fairness/create rad smogger adlevel data.py 830.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad metrics/ads personalization/onsite/onsite data understanding.py 831.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad metrics/ads personalization/onsite/page engagement analysis.py 832.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad metrics/ads personalization/onsite/prepare ucm accumulative data.py 833.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad metrics/ads personalization/onsite/systematic feature engineering/sfe user ad impression downsampled features.py 834.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad metrics/ads personalization/onsite/systematic feature engineering/sfe user ad impression features.py 835.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad metrics/ads quality/daily user metrics aa period.py 836.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad metrics/ads quality/daily user metrics subset aa period.py 837.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad metrics/ads quality/engagement bait prevalence multi language.py 838.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad metrics/ads ranking/megataxon international sampling/megataxon international sampling.py 839.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad metrics/ads ranking/sparse feature clustering/build user entity graph unstable entities.py 840.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad metrics/ads solutions/local ads/local ads 841.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad metrics/advertiser value score/imp level value score.py 842.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad metrics/audience network/code backup/aud network pvil account whitelist grt.py 843.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad metrics/basic ads/basic ads clks imps with ppf policy.py 844.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad metrics/brand safety/profile plus tracking.py 845.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad metrics/business integrity/ad megataxon.py 846.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad metrics/business integrity/ads integrity measurement ms pvil.py 847.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad metrics/calibration/campaign calibration metric conv dedupe.py 848.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad metrics/calibration/campaign calibration metrics grt.py 849.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad metrics/conversion quality/purchase sentiment/conversion quality long term backfill.py 850.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad metrics/cpas/imp clk conversion.py 851.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad metrics/crow/crow2/imps reach freq.py 852.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad metrics/crow/crow2/imps user pvi.py

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853.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad metrics/crow/crow2/model assisted sampling/placement weighted sample ads.py 854.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad metrics/crow/crow2/qrt ad metrics.py 855.fbsource/fbcode/dataswarm-pipelines/tasks\_adhoc/ad\_metrics/da\_imp\_dist\_pipeline.py 856.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad metrics/dco/experiments/image adhoc experiment data.py 857.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad metrics/delivery intelligence decision/creative fatigue offline analysis v3.py 858.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad metrics/delivery intelligence decision/csbqrt multi ad fatigue table1.py 859.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad metrics/dpa/get assisted conversions.py 860.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad metrics/ecosystem/ecosystem bid offset.py 861.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad metrics/erc/us2020/us2020 ad impressions.py 862.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad metrics/erc/us2020/us2020 ads table.py 863.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad metrics/f3/prod/flexible batch/dummy ig interest feature.py 864.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad metrics/f3/uds/ingestion/click backfill.py 865.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad metrics/f3/uds/ingestion/click warmup backfill.py 866.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad metrics/feed ads/ads comment/ads commen reranking/ads comment click score training table.py 867.fbsource/fbcode/dataswarm-pipelines/tasks\_adhoc/ad\_metrics/feed\_ads/dco/qrt\_analysis\_dco.py 868.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad metrics/feed ads/dpa template/format qrt imps clicks.py 869.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad metrics/feed ads/dpa template/format qrt raw event.py 870.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad metrics/feed ads/feed ads quality/feed ads megataxon repetition measurement.py 871.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad metrics/financial services ranking/signal quality/auto insurance ads engagement.py 872.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad metrics/ic exp/post analysis.py 873.fbsource/fbcode/dataswarm-pipelines/tasks\_adhoc/ad\_metrics/ic\_exp/pre\_processing.py 874.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad metrics/insights/conversion report health/qrt campaign perf impact analysis.py 875.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad metrics/instagram ads/ads and commerce quality/ig ads purchase comment ranking impact analysis.py 876.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad metrics/instagram ads/ig ad history/ig product imps for shop rediscovery tab.py 877.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad metrics/integrity/sampling/fb reels stickers monetization sampling for srt.py 878.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad metrics/intent/intent attribution/user ad impression.py 879.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad metrics/intent/intent attribution/user ad impression onsite.py 880.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad metrics/intent/onsite/dpa ad imps.py 881.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad metrics/marketplace ads/join otp data for correlation analysis.py 882.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad metrics/measurement/aggregated clicks/threshold analysis.py 883.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad metrics/measurement/debiasing/ad conversions debiasing validation.py 884.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad metrics/measurement/debiasing/click users.py 885.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad metrics/measurement/debiasing/embedding features.py 886.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad metrics/measurement/viewability/stg partner ad imps annotated.py 887.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad metrics/measurement ds/alexwhitworth/measuring ltr/01 pacedbid calcs.R 888.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad metrics/onsite signal/adhoc ultimate raw signals analysis.py 889.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad metrics/order id/order id/orderid realtime.py 890.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad metrics/pacing/opp curve accuracy no dst fix.py 891.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad metrics/pacing/opp curve freq caps.py 892.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad metrics/private aggregation/mpc aem ad clicks adhoc.py 893.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad metrics/qrt/cbo qrt sav pipeline.py 894.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad metrics/qrt/df an incrementality.py 895.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad metrics/randomized delivery/randomized delivery pipeline.py

896.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad metrics/sdecoto/asbgrt metrics sdecoto.py

897.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad metrics/signal loss/debiaser analyst/epd click pipeline.py

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898.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad metrics/signal loss/debiaser analyst/epd historical click pipeline.py 899.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad metrics/signal loss/debiaser analyst/epd imp pipeline.py 900.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad metrics/signal value/negative signal/s1 imp clk feature generate extract.py 901.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad metrics/signal value/negative signal/v2s1 imp clk extract.py 902.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad metrics/signal value/signal inventory/onsite signals.py 903.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad metrics/signals/core/impression conversion/offsite campaign impression conversion.py 904.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad metrics/targeting/dynamic ab deliver/legacy tasks/ab aggr bqrt.py 905.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad metrics/targeting/dynamic ab deliver/legacy tasks/ab aggr prod.py 906.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad metrics/targeting/dynamic ab deliver/legacy tasks/ab eval bqrt v2.py 907.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad metrics/targeting/dynamic ab deliver/legacy tasks/ab eval prod.py 908.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad metrics/targeting/hints/hints qrt analysis.py 909.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad metrics/targeting/prospecting audience/bak/qrt analysis.py 910.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad metrics/targeting/prospecting audience/bak/ratio exploration eval.py 911.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad metrics/targeting/qrt analysis/dt qrt analysis.py 912.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad metrics/targeting/signal loss/bfnt qrt exc analysis.py 913.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad metrics/targeting/signal loss/lal qrt relaxed in out analysis.py 914.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad metrics/vertical ranking/travel/user travel page engagement by country.py 915.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad metrics/verticalization/ads score counterfactual grt.py 916.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad metrics/video ads/partner feeds/ivt transformer test.py 917.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad metrics/video ads/personalization/filtered thumbnail ctr.py 918.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad metrics/video ads/personalization/filtered thumbnail cvr.py 919.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ad metrics/video ads/personalization/filtered thumbnail impressions.py 920.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/ai infra/ai privacy insights/automated lineage verification sources.py 921.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/bi/ads fairness/user level ad segment delivery.py 922.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/bi/ads fairness/user level campaign delivery.py 923.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/bi/instagram/ig acf quality.py 924.fbsource/fbcode/dataswarm-pipelines/tasks\_adhoc/bi/internet\_marketing/sem/fan.py 925.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/datascience/aa/multiple snapshots/get data.Rmd 926.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/datascience/an and feed/relative costs.R 927.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/datascience/feed ads quality/cheap delivery analysis.rmd 928.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/datascience/knizia/local synthetic eval/R/block model exploration.R 929.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/di/depa/oba adhoc.py 930.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/growth/detection audit/hardmatch count.py 931.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/instagram/ads/diversity/ig ads repetiton pipeline.py 932.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/instagram/ads/explore ads/media chaining author cluster top taxonomy.py 933.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/instagram/ads/generate explore ad load v2 exp data.py 934.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/instagram/ads/oops/pbia ads oops.py 935.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/instagram/ads/purchase value/imps per grt.pv 936.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/instagram/ads/purchase value/per campaign roh and robi predictions.py 937.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/instagram/ads/purchase value/pvp common.py 938.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/instagram/ads/ranking analysis/xray v11 ads killed conv type.py 939.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/instagram/ads and commerce quality/ig ads diversity analysis.py 940.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/instagram/ads and commerce quality/ig ads robi advertiser impact analysis.py 941.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/instagram/ads and commerce quality/ig ads robi metric per qrt breakdown by main rating.py

942.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/instagram/ads and commerce quality/ig ads robi metric per qrt breakdown by user answered robi survey.py

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944.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/instagram/ads and commerce quality/ig ads robi pred breakdown by main rating user ad pair.py 945.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/instagram/ads and commerce quality/ig ads robi pred breakdown by user answered robi survey.py 946.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/instagram/country page type.py 947.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/instagram/measure eval scores by page type.py 948.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/locations/geoapi/ad location engineering/README.html 949.fbsource/fbcode/dataswarm-pipelines/tasks\_adhoc/locations/geoapi/ad\_location\_engineering/README.md 950.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/locations/locsig/ar ads/organic bid analysis.py 951.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/measurementsystems/core metrics/ad adjacency/ad adjacency understanding.py 952.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/measurementsystems/integrity/quality sessions/session warehouse features config.py 953.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/measurementsystems/integrity/quality sessions/sessions metrics ads fgf.py 954.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/pages/local monetization/daily transactions ads attribution.py 955.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/platform/ad network/code backup/ad network publisher core.py 956.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/platform/ad network/code backup/fct core video imps.py 957.fbsource/fbcode/dataswarm-pipelines/tasks\_adhoc/platform/ad\_network/core/fct\_core\_video\_imps.py 958.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/platform/ad network/core/stg audience network imp click conv.py 959.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/platform/ad network/core/stg audience network imp click conv old.py 960.fbsource/fbcode/dataswarm-pipelines/tasks adhoc/platform/ad network/incrementality/bqrt lift incrementality.py 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- 988.fbsource/fbcode/dataswarm-pipelines/upm\_data/datasets/hive/ad\_delivery/tmp\_ad\_imps\_annotated\_ecpm\_bid\_condensed.py
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- 1033. fbsource/fbcode/dataswarm-pipelines/upm data/datasets/hive/ad metrics/roas ad imps annotated filtered newcol.py
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1189.

## Exhibit B

Highly Confidential -Attorneys' Eyes Only

#### Exhibit B

#### table name

- 1. aac platform aac eligibility inc archive
- 2. aad f3 account confirmed features inc archive
- 3. aad\_f3\_fb\_registration\_features\_inc\_archive
- 4. and fnrp features inc archive
- 5. aad registration features inc archive
- 6. aams fb automated signals inc archive
- 7. aams signal automation feature store map inc archive
- 8. aams srt shared device users inc archive
- 9. aap business manager inc archive
- 10. aap query record log inc archive
- 11. aap template approval inc archive
- 12. ab testing events inc archive
- 13. abp message score inc archive
- 14. abp recommendation waterfall inc archive
- 15. abuse case transactions inc archive
- 16. abusive\_accounts\_disable\_block\_handler\_events\_inc\_archive
- 17. ac\_ofa\_graphql\_inc\_archive
- 18. access handler auth proof inc archive
- 19. access handler exterior inc archive
- 20. access handler perf inc archive
- 21. access handler step inc archive
- 22. access hub inc archive
- 23. access hub search stats inc archive
- 24. access token auth inc archive
- 25. access token issuance inc archive
- 26. access token reception sampled inc archive
- 27. account cleanup item delete inc archive
- 28. account cleanup steps inc archive
- 29. account confirmation checkpoint endpoints inc archive
- 30. account deletion inc archive
- 31. account integrity metrics inc archive
- 32. account integrity routing inc archive
- 33. account linking authentication inc archive
- 34. account linking infra inc archive
- 35. account linking matched users business id inc archive
- 36. account linking matched users inc archive
- 37. account quality event log inc archive
- 38. account quality vertical education inc archive
- 39. account recovery challenges inc archive
- 40. account recovery client events inc archive
- 41. account recovery eventual state inc archive
- 42. account recovery inc archive
- 43. account recovery send code inc archive
- 44. account restriction endpoint permissions inc archive
- 45. account switcher cg inc archive
- 46. account throttling api call history inc archive
- 47. account throttling api call history sii offsite inc archive
- 48. accounts with broken deletion schedule inc archive

- 49. acdp unified api inc archive
- 50. ace debug events inc archive
- 51. ace enforcement evaluation actions inc archive
- 52. ace enforcement evaluation flow inc archive
- 53. ace enforcement final state inc archive
- 54. ace enforcement notification inc archive
- 55. ace survey response ent history inc archive
- 56. aco creative guardrails inc archive
- 57. aco d1 ads fam rendering verification log inc archive
- 58. aco d1 migration funnel inc archive
- 59. aco eligibility migration shadow evaluation inc archive
- 60. aco glados4feed all traffic inc archive
- 61. aco image filtering all traffic inc archive
- 62. aco media liquidity metrics inc archive
- 63. aco text liquidity inc archive
- 64. acp client side biometrics inc archive
- 65. acquisition client events inc archive
- 66. acro data discrepancy log inc archive
- 67. acro\_image\_invalidations\_inc\_archive
- 68. acrolinx usage inc archive
- 69. acs\_ent\_message\_blob\_attachment\_observer\_inc\_archive
- 70. act push notification events inc archive
- 71. act push notification events restricted inc archive
- 72. acta fanout inc archive
- 73. action mapper inc archive
- 74. activation service debug inc archive
- 75. active users raw inc archive
- 76. activity log action failures inc archive
- 77. activity log bulk actions inc archive
- 78. activity log debug inc archive
- 79. activity log ent fetcher failures inc archive
- 80. activity log experiment data inc archive
- 81. activity log gen is in archive inc archive
- 82. activity log inc archive
- 83. activity log t68213507investigation inc archive
- 84. activity log timeline category info inc archive
- 85. activity notif generator inc archive
- 86. actor feedback experience inc archive
- 87. actor feedback proxy inc archive
- 88. actor framework inc archive
- 89. actor gateway service inc archive
- 90. actor gateway user warning inc archive
- 91. actor prevention inc archive
- 92. actor review actions inc archive
- 93. actor sanctions inc archive
- 94. actor spokes events inc archive
- 95. ad4ad unified events inc archive
- 96. ad 3 dot smsl aet labeling model inc archive
- 97. ad 3 dot smsl aet model inc archive
- 98. ad 3 dot smsl imp model inc archive
- 99. ad account ad volume inc archive

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- 100. ad account agency client declaration inc archive
- 101. ad account assoc perms inc archive
- 102. ad account billing date preference inc archive
- 103. ad account creation inc archive
- 104. ad account daily topup threshold inc archive
- 105. ad account granular perm check inc archive
- 106. ad account load using legacy account inc archive
- 107. ad\_account\_parent\_qe\_logging\_details\_inc\_archive
- 108. ad\_account\_reactivate\_by\_user\_reactivation\_inc\_archive
- 109. ad account risk retry inc archive
- 110. ad account status inc archive
- 111. ad account user banhammer inc archive
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- 113. ad account validation failure inc archive
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- 115. ad aggregated imps filtered rc inc archive
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- 121. ad\_async\_execution\_engine\_event\_inc\_archive
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- 123. ad async post processing inc archive
- 124. ad async post processing non critical inc archive
- 125. ad\_async\_post\_processing\_request\_mutation\_inc\_archive
- 126. ad blocker detector imps inc archive
- 127. ad blocker detector on feed imps inc archive
- 128. ad break creator performance actions inc archive
- 129. ad break disable reasons inc archive
- 130. ad break onboarding entry points impression inc archive
- 131. ad break page onboarding inc archive
- 132. ad break portal inc archive
- 133. ad break prereview inc archive
- 134. ad break segment inc archive
- 135. ad breaks block list mutation logger inc archive
- 136. ad breaks creator experiment inc archive
- 137. ad breaks custom creator message inc archive
- 138. ad breaks nps survey inc archive
- 139. ad breaks page insights inc archive
- 140. ad breaks user journey summary inc archive
- 141. ad breaks yield metrics inc archive
- 142. ad builder inc archive
- 143. ad campaign group budget proration debug inc archive
- 144. ad campaigns saved audience dissociation status inc archive
- 145. ad click ip ua domain inc archive
- 146. ad client render events inc archive
- 147. ad creation package events inc archive
- 148. ad creative attachments from object story spec inc archive
- 149. ad creative dof graph validator inc archive
- 150. ad creative image download action inc archive

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- 151. ad creative inline post creation inc archive
- 152. ad creative missing optimization type inc archive
- 153. ad creative null action t inc archive
- 154. ad\_creative\_optimization impression log inc archive
- 155. ad creative optimization log inc archive
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- 161. ad creative video optimization inc archive
- 162. ad creative video subtitle optimization inc archive
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- 164. ad d1 migration rendering verification inc archive
- 165. ad default value recommendation inc archive
- 166. ad delivery landing page view data inc archive
- 167. ad delivery notifications inc archive
- 168. ad delivery optimization cache log inc archive
- 169. ad device has too many users inc archive
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- 194. ad interface tracking bp consistency checker inc archive
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- 204. ad library downloads inc archive
- 205. ad library error inc archive
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- 210. ad limits\_adgroup\_funding\_page\_assoc\_inc\_archive
- 211. ad limits ads manager inc archive
- 212. ad limits enforcement inc archive
- 213. ad limits page tool inc archive
- 214. ad limits scope id calculation inc archive
- 215. ad limits unit inc archive
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- 257. ad preferences control imp measurement inc archive
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- 263. ad preview inc archive
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- 265. ad preview pagelet controller inc archive
- 266. ad preview performance debug details inc archive
- 267. ad\_preview\_rendering\_error\_inc\_archive
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- 282. ad social context model prediction inc archive
- 283. ad social context modeling eligibility prediction inc archive
- 284. ad social feedback assoc cleanup inc archive
- 285. ad study first opportunities inc archive
- 286. ad study holdout opportunities inc archive
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- 289. ad study opportunities polled via internal polling logger inc archive
- 290. ad super resolution inc archive
- 291. ad user group bidding events inc archive
- 292. ad video thumbnails inc archive
- 293. ad whale account inc archive
- 294. ad xout support case inc archive
- 295. ad xout violations inc archive
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- 297. adama privacy selector inc archive
- 298. adaptive encoding config selector inc archive
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- 300. adcali ai apple signal loss app track conv baseline legacy inc archive
- 301. adcali ai apple signal loss app track conv non apple ios134above legacy inc archive
- 302. adcali ai oc apple ios134above legacy inc archive
- 303. adcali ai offsite apple data inc archive

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- 304. adcali ai post imp cvr an model with new features inc archive
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- 314. adcali product features logger inc archive
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- 320. adconv fb only scored prod inc archive
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- 322. adconv\_shop\_ranking\_purpose\_test\_inc\_archive
- 323. adconv subscription adimp inc archive
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- 328. additional profiles disabled features inc archive
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- 330. adevent conversion core nonbillable test inc archive
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- 333. adfinder ecpm percentile inc archive
- 334. adfinder get unified request indexed inc archive
- 335. adfinder messenger per request inc archive
- 336. adfinder model system optimization inc archive
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- 340. adgroup creative action t validator inc archive
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- 411. admin\_records\_for\_enforced\_apps\_inc\_archive
- 412. administered viewer context generation error inc archive
- 413. administrative accounts inc archive
- 414. adminless viewer context inc archive
- 415. admonitor conversions lite by admarket id inc archive
- 416. admonitor imps lite by admarket id inc archive
- 417. admonitor\_imps\_lite\_by\_admarket\_id\_staging\_inc\_archive
- 418. adnw request blocklist violations inc archive
- 419. adpro data type from db inc archive
- 420. adpro target spec hash value different error inc archive
- 421. adpublisher post imp cvr model with attention incl an pos filter inc archive
- 422. adquery entql plan consistency checker inc archive
- 423. ads account mutator inc archive
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- 427. ads activity log calypso client inc archive
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- 429. ads activity log observer inc archive
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- 441. ads api campaign groups traces inc archive
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- 445. ads api detail sb inc archive
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- 459. ads bug report events inc archive
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- 465. ads buying service hits inc archive
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- 500. ads delivery full funnel inc archive
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- 506. ads delivery learning stage inc archive
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- 512. ads delivery view api details inc archive
- 513. ads delivery www events inc archive
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- 558. ads inline comment and image filtering all\_traffic\_inc\_archive

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- 559. ads inline comment and social context all traffic inc archive
- 560. ads inline comment and thumbnail all traffic inc archive
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- 610. ads midflight budget limited recommendation inc archive
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- 770. ags page intent model scores inc archive
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- 789. alite non allowlisted interface usage inc archive
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- 820. an sk ad network metadata inc archive
- 821. analytics notebook portal usage raw inc archive
- 822. analytics people insights custom audience loader inc archive
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- 841. android messenger cache db consistency inc archive
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- 843. android messenger db server consistency inc archive
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- 885. api\_error details inc archive
- 886. api\_error\_details\_inc\_archive
- 887. api error details sii offsite inc archive
- 888. api hits ads inc archive
- 889. api hits ads sb inc archive
- 890. api hits ads sii offsite inc archive
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- 896. api hits www offsite pages eii inc archive
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- 900. api public profile call sites inc archive
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- 902. api tokenless user node read inc archive
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- 905. app ad constraints inc archive
- 906. app admin migration inc archive
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- 937. app\_roles\_history\_inc\_archive
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- 939. app session summary inc archive
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- 944. app submission tier inc archive
- 945. app suggested events inc archive
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- 950. application activity custom events inc archive
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- 983. ar delivery create downscaled assets observer inc archive
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- 986. ar discovery effect rank inc archive
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- 1005. ar hub marketplace inc archive
- 1006. ar hub user navigation inc archive
- 1007. ar\_hub\_welcome\_checklist\_inc\_archive
- 1008. ar integrity history inc archive
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- 1023. arvr family of apps interactions inc archive
- 1024. asid psid usage inc archive
- 1025. ask employee activities inc archive
- 1026. asp client async request inc archive
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- 1029. asp javascript exceptions inc archive
- 1030. asp relay query inc archive
- 1031. asp web error boundary exceptions dev inc archive
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- 1036. asset feed spec to static creative spec conversion inc archive
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- 1040. asset sharing activity inc archive
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- 1056. attachment\_media\_image\_graph\_ql\_request inc archive
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- 1066. auction qp model calibration events inc archive
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- 1068. auction qp pacing multiplier estimation debug inc archive

- 1069. auction qp quality bid value inc archive
- 1070. auction slot waterfall canary inc archive
- 1071. auction slot waterfall e2e inc archive
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- 1073. auction\_user\_budget\_inc\_archive
- 1074. audience alignment inc archive
- 1075. audience discrepancies inc archive
- 1076. audience network ad search inc archive
- 1077. audio home inc archive
- 1078. audio home ranking api log inc archive
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- 1080. audio library music artist creation inc archive
- 1081. audio\_library query results inc archive
- 1082. audio listen session deltas inc archive
- 1083. audio ml uih long video view event podcast inc archive
- 1084. audio room clc debug inc archive
- 1085. audio room events inc archive
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- 1100. authenticity ads delivery status inc archive
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- 1102. authenticity autofix inc archive
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- 1104. authenticity cache inc archive
- 1105. authenticity commerce merchant verification inc archive
- 1106. authenticity commercial verification inc archive
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- 1138. avatars\_expressions\_ods\_inc\_archive
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- 1180. background location server write inc archive
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- 1202. batch contact async upload error inc archive
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- 1211. bd onsite signals inc archive
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- 1313. boosted\_component\_client\_exceptions\_inc\_archive
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- 1339. box office client inc archive
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- 1341. bps case routing info inc archive
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- 1362. branded\_content\_legitimacy\_inc\_archive
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- 1487. business integrity ipc cache inc archive
- 1488. business\_integrity\_ipc\_dev\_inc\_archive
- 1489. business integrity ipc inc archive
- 1490. business integrity ipc traffic inc archive
- 1491. business integrity mlex ad activity perf inc archive
- 1492. business integrity mlex ad history inc archive
- 1493. business integrity mlex adv dashboard feedback inc archive
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- 1495. business integrity mlex backend exceptions inc archive
- 1496. business integrity mlex ban inc archive
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- 1499. business integrity mlex feedback survey targeting v2 inc archive
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- 1503. business integrity penalty banner renders dev inc archive
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- 1505. business invoice report inc archive
- 1506. business management requests inc archive
- 1507. business manager actor level enforcement rules inc archive
- 1508. business manager events inc archive
- 1509. business manager generic log inc archive
- 1510. business manager inc archive
- 1511. business manager intern tool inc archive
- 1512. business manager ownership transfer inc archive
- 1513. business marketing email inc archive
- 1514. business messaging products analysis inc archive
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- 1516. business messaging reengagement recipient events inc archive
- 1517. business obo events inc archive
- 1518. business obo request details inc archive
- 1519. business partner center exceptions inc archive
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- 1521. business perm user ref update inc archive
- 1522. business permission events inc archive
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- 1528. business profile plus chaining inc archive
- 1529. business public conversations events inc archive
- 1530. business scoping error inc archive
- 1531. business sdk hit inc archive
- 1532. business sdk hit sii offsite inc archive
- 1533. business sensitive action review inc archive
- 1534. business service provider ent restriction inc archive
- 1535. business service provider ent restriction unittest inc archive
- 1536. business sharing debug inc archive
- 1537. business sharing exception inc archive
- 1538. business subdomain graph ql inc archive
- 1539. business\_support\_chatbot\_inc\_archive
- 1540. business support non user interaction inc archive
- 1541. business support platform inc archive
- 1542. business support product error inc archive
- 1543. business\_survey\_inc\_archive
- 1544. business tasks inc archive
- 1545. business two tier events inc archive
- 1546. business unified navigation inc archive
- 1547. business unified relationship model consistency inc archive
- 1548. business user access token inc archive
- 1549. business user backing user ent type inc archive
- 1550. business user creation inc archive
- 1551. business user email confirmation inc archive
- 1552. business user life cycle inc archive
- 1553. business user management capability inc archive
- 1554. business verification api inc archive
- 1555. business verification core metrics inc archive
- 1556. business verification edit changes inc archive
- 1557. business verification false positive rejection rule inc archive
- 1558. business verification financial services authorization inc archive
- 1559. business verification notification events inc archive
- 1560. business verification onboarding reliability inc archive
- 1561. business verification risky rule inc archive
- 1562. business verification status reliability inc archive
- 1563. business verification submission risk inc archive
- 1564. business verification ui inc archive
- 1565. business verification uploaded file cv extractor inc archive
- 1566. business verification uploaded file ocr extractor inc archive
- 1567. buy at activities inc archive
- 1568. buy at events inc archive
- 1569. buy at metric tracking inc archive
- 1570. buy at purchase order activities inc archive
- 1571. buy at user events inc archive
- 1572. buy sell group debug inc archive
- 1573. buzz event context v1 inc archive
- 1574. buzzer event context v2 inc archive
- 1575. buzzer unified event counter inc archive
- 1576. by verification status changes inc archive
- 1577. bypass login events inc archive
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- 1579. bypass login native inc archive
- 1580. bypass login rules inc archive
- 1581. c2c commerce local ranking candidate inc archive
- 1582. c2c\_commerce\_shipping\_ranking\_candidate\_inc\_archive
- 1583. c2c\_live\_shopping\_training\_data\_inc\_archive
- 1584. c2c seller and listing shipping details inc archive
- 1585. c2c shipping and ecomm transaction training inc archive
- 1586. c2c shipping and ecomm transaction training v2 inc archive
- 1587. c2c shipping checkout training inc archive
- 1588. c2c shipping checkout training v2 inc archive
- 1589. c2c shipping click training inc archive
- 1590. c2c shipping click training v3 inc archive
- 1591. c2c shipping seller rate limiting inc archive
- 1592. c2c shipping transaction mtml training inc archive
- 1593. c2c\_shipping\_transaction\_mtml\_training\_v2\_inc\_archive
- 1594. c2c\_shipping\_transaction\_training inc archive
- 1595. c2c shipping transaction training v2 inc archive
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- 1597. c2c\_transaction\_survey\_inc\_archive
- 1598. c3 work item inc archive
- 1599. c4g mib messaging events inc archive
- 1600. ca intern permissions inc archive
- 1601. cachius query log inc archive
- 1602. caip tool commerce inc archive
- 1603. caipt ad item logger inc archive
- 1604. caipt\_commerce\_item logger inc archive
- 1605. caipt contact information actions inc archive
- 1606. caipt generic report logger inc archive
- 1607. caipt notification logger inc archive
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- 1610. call center connector event inc archive
- 1611. call center super read usage inc archive
- 1612. camera highlights features inc archive
- 1613. camera highlights story features inc archive
- 1614. camera roll asset counts inc archive
- 1615. camera waterfall ar services inc archive
- 1616. camera waterfall ar services location effects inc archive
- 1617. camera waterfall ar services location effects inc archive
- 1618. camera waterfall ar services restricted inc archive
- 1619. camera xplat render time inc archive
- 1620. camera xplat render time restricted inc archive
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- 1622. campaign medium selection inc archive
- 1623. campaign story notif debug inc archive
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- 1628. canonical url mismatch shares inc archive
- 1629. canonical xposting waterfall events inc archive

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- 1632. canvas games events inc archive
- 1633. canvas games iap events inc archive
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- 1636. capy agent status auto update event inc archive
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- 1640. capy bot nlp triage inc archive
- 1641. capy\_chat\_demand\_control\_inc\_archive
- 1642. capy chat failure inc archive
- 1643. capy chat form submission inc archive
- 1644. capy\_distribution\_match\_inc\_archive
- 1645. capy gms srt survey inc archive
- 1646. capy messages inc archive
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- 1657. carrier subscriber profile inc archive
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- 1671. catalog management permission events inc archive
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- 1675. catalog segment debugging inc archive
- 1676. catalog segment filter mutation inc archive
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- 1681. categorized\_gysj\_events\_inc\_archive
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- 1684. ccs\_event\_logger\_inc\_archive
- 1685. ccs\_uris\_logger\_inc\_archive
- 1686. ccu contacts inc archive
- 1687. ccu setting enable disable event inc archive
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- 1691. cdevent rejected traffic onsite inc archive
- 1692. cds advertiser provided product recommendations inc archive
- 1693. cds events ad clicks for features of basic ads inc archive
- 1694. cds\_events\_ad\_impressions\_for\_admetrics\_inc\_archive
- 1695. cds events ad impressions for bidding inc archive
- 1696. cds events ad impressions for cocoon inc archive
- 1697. cds events ad impressions for delivery inc archive
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- 1699. cds events ad impressions for qrt inc archive
- 1700. cds events ad unified feedback interface inc archive
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- 1702. cds\_events\_ads\_transparency\_inc\_archive
- 1703. cds\_events\_click to call app state change inc archive
- 1704. cds events commerce inc archive
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- 1706. cds events feed tracking inc archive
- 1707. cds events marketplace impressions inc archive
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- 1712. cds events non ofa ad conversions for delivery inc archive
- 1713. cds events non ofa ad conversions for delivery of basic ads inc archive
- 1714. cds events non ofa ad conversions for grt inc archive
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- 1719. cds events offsite signals inc archive
- 1720. cds events onsite facebook education inc archive
- 1721. cds events onsite facebook gaming inc archive
- 1722. cds events pages inc archive
- 1723. cds events profile plus transition inc archive
- 1724. cds events time spent navigation mobile inc archive
- 1725. cds events user feed interactions inc archive
- 1726. cds static hec user profile fbobject fbtype 2048 base2
- 1727. cds static hec user profile fbobject fbtype 5021 base2
- 1728. cds static instant article to publisher page base2
- 1729. cds static non hec user profile fbobject fbtype 6057 base2
- 1730. cds static video metadata fbobject fbtype 1 base2
- 1731. cdt percentile property aggregation result delta inc archive

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- 1732. cdt properties change offsite inc archive
- 1733. cdt properties change onsite inc archive
- 1734. ceg content you may share inc archive
- 1735. cell tower info detection inc archive
- 1736. centra bi actions inc archive
- 1737. centra data export inc archive
- 1738. centra investigation node base2
- 1739. central dci piv events inc archive
- 1740. central gesture with nav inc archive
- 1741. central interest manager events inc archive
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- 1744. centralized ib scores fb inc archive
- 1745. cert verification inc archive
- 1746. certificate revoke inc archive
- 1747. certificate transparency inc archive
- 1748. certmetrics create account handler inc archive
- 1749. certmetrics sso inc archive
- 1750. chaining\_empty\_result\_inc\_archive
- 1751. challenge eligibility rules inc archive
- 1752. charitable giving abandoned profile prompt v1 loop examples inc archive
- 1753. chart\_dictator\_image\_details\_inc\_archive
- 1754. charta perf metrics inc archive
- 1755. chat in a box common inc archive
- 1756. chat reliability inc archive
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- 1758. check fss when currency update inc archive
- 1759. checkbox plugin inc archive
- 1760. checkpoint account status async job inc archive
- 1761. checkpoint captcha inc archive
- 1762. checkpoint client filtered events inc archive
- 1763. checkpoint delta reg attacks inc archive
- 1764. checkpoint enrollment metadata null state inc archive
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- 1766. checkpoint id upload exif data inc archive
- 1767. checkpoint text message captcha inc archive
- 1768. checkpoint unexpected null inc archive
- 1769. checkpoint webview timespent inc archive
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- 1771. chex buyer order seller banned notification events inc archive
- 1772. chex insights metrics perf dev inc archive
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- 1778. chex order metrics inc archive
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- 1783. chex\_orders\_monitoring\_inc\_archive
- 1784. chex payment invoice base2
- 1785. chex pricing engine inc archive
- 1786. child\_safety\_prevention\_treatments\_inc\_archive
- 1787. chilipiper\_api\_calls\_inc\_archive
- 1788. china ad account creation review inc archive
- 1789. china onboarding history events inc archive
- 1790. china smb onboarding creation inc archive
- 1791. china trust product interactions inc archive
- 1792. chrome push permission events inc archive
- 1793. churn model events inc archive
- 1794. ci action feedback events inc archive
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- 1797. ci friends suggestion policy inc archive
- 1798. ci pymk first fetch inc archive
- 1799. ci soft actions inc archive
- 1800. ci soft actions trial inc archive
- 1801. ci\_strikes\_count\_comparison\_inc\_archive
- 1802. ci strikes enforcement inc archive
- 1803. ci unified strike trace inc archive
- 1804. cig declared user interest profile inc archive
- 1805. cim\_read\_api\_comparison\_inc\_archive
- 1806. cim user interest info fbtype 43593 base2
- 1807. cip notif delivery inc archive
- 1808. cip notif jewel inc archive
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- 1810. cip publisher all video lvv60 event xstream inc archive
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- 1814. cip ya wpi realtime inc archive
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- 1819. city guides msite inc archive
- 1820. civic action raw logs inc archive
- 1821. civic graph loki fallback inc archive
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- 1827. clash manager events inc archive
- 1828. clear\_history\_batch\_mac\_logger\_inc\_archive
- 1829. clear history controls actions inc archive
- 1830. clear\_history\_controls\_client\_actions\_inc archive
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- 1833. clear history graphql inc archive

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- 1835. clear\_history\_sid\_disconnect\_dapl\_inc\_archive
- 1836. clear history wabam inventory inc archive
- 1837. clear history whitelist blacklist inc archive
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- 1839. click mbl feed inc archive
- 1840. click to message ads debug inc archive
- 1841. click to message destination optimization inc archive
- 1842. click to messaging ads conversion funnel inc archive
- 1843. click to messaging ads delivery inc archive
- 1844. click to messaging ads logging inc archive
- 1845. click\_to\_messaging\_reply\_cvr\_all\_model\_ba\_feature\_only\_inc\_archive
- 1846. click\_to\_messaging\_reply\_cvr\_all\_model\_inc\_archive
- 1847. click to messenger ads engagement inc archive
- 1848. click\_to\_messenger\_growth\_inc\_archive
- 1849. clicks bookmark clicks mobile inc archive
- 1850. client ad delivery inc archive
- 1851. client\_ad\_delivery\_v3\_inc archive
- 1852. client\_animated\_gif\_type\_inc\_archive
- 1853. client deprecation login block inc archive
- 1854. client\_effect\_query\_inc\_archive
- 1855. client\_experiment\_exposures\_inc\_archive
- 1856. client interaction timezone inc archive
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- 1858. client msg send waterfall inc archive
- 1859. client permission\_state\_inc\_archive
- 1860. client pymk fetch inc archive
- 1861. client side ad invalidations inc archive
- 1862. client side preview data fetching inc archive
- 1863. client slot fill rate feed vpvd inc archive
- 1864. close ad account inc archive
- 1865. close friends curation inc archive
- 1866. close friends home inc archive
- 1867. cloud ar tracker client inc archive
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- 1876. cloud hero banner impression inc archive
- 1877. cm groups event inc archive
- 1878. cm privacy restriction enforcement inc archive
- 1879. cm search members client events inc archive
- 1880. cm smb sensitive events inc archive
- 1881. cmh\_aymt\_in\_product\_scheduled\_inc\_archive
- 1882. cmh cucs base2
- 1883. cmh jucs base2
- 1884. cmh stored events base2

- 1885. cmm read inc archive
- 1886. cmm write inc archive
- 1887. cmri event logger inc archive
- 1888. cms branches inc archive
- 1889. cms bulk actions inc archive
- 1890. cms bulk fetch inc archive
- 1891. cms controller request inc archive
- 1892. cms editor session inc archive
- 1893. cms editor subsession inc archive
- 1894. cms event inc archive
- 1895. cms folders inc archive
- 1896. cms\_legacy\_rendering\_metrics\_inc\_archive
- 1897. cms linter rules inc archive
- 1898. cms\_object\_versioned\_reference\_async inc archive
- 1899. cms\_power\_search\_inc\_archive
- 1900. cms rendering perfomance inc archive
- 1901. cms schedule inc archive
- 1902. cms search and replace inc archive
- 1903. cms search inc archive
- 1904. cms search index inc archive
- 1905. cms\_tag\_usage\_inc\_archive
- 1906. cms\_usage\_inc\_archive
- 1907. cms wizard action inc archive
- 1908. cmswysiwyg events inc archive
- 1909. cmu task plugin thrift calls inc archive
- 1910. cnc\_credit\_automation job instance inc archive
- 1911. cnc extended credit application inc archive
- 1912. cnp push filter xiaomi inc archive
- 1913. codeless app indexing session inc archive
- 1914. coe tools inc archive
- 1915. coefficient rt event non user inc archive
- 1916. coefficient rt event user inc archive
- 1917. cohort weighting events inc archive
- 1918. collab\_ads\_platform\_events\_inc\_archive
- 1919. collaboration center inc archive
- 1920. collaborative ads merchant discovery inc archive
- 1921. collaborative ads partner option inc archive
- 1922. collaborative stories inc archive
- 1923. collect at office365 inc archive
- 1924. collection link click post imp model inc archive
- 1925. comet edf nux events inc archive
- 1926. comet events audit inc archive
- 1927. comet feed units eligibility inc archive
- 1928. comet incognito mode inference inc archive
- 1929. comet magic uploads inc archive
- 1930. comet media viewer actions inc archive
- 1931. comet metrics health inc archive
- 1932. comet top navigation inc archive
- 1933. comet trial participation detail inc archive
- 1934. comment actions inc archive
- 1935. comment assistant candidate level inc archive

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- 1937. comment assistant waterfall inc archive
- 1938. comment composer drawer suggestions inc archive
- 1939. comment\_composer\_gif\_interaction\_events\_inc\_archive
- 1940. comment\_count\_events\_inc\_archive
- 1941. comment create reliability debugging inc archive
- 1942. comment\_critical\_mutator\_exceptions\_inc\_archive
- 1943. comment evt test distinct types inc archive
- 1944. comment fetching debug events inc archive
- 1945. comment idempotent inc archive
- 1946. comment inform treatments inc archive
- 1947. comment moderation filters inc archive
- 1948. comment mutation error inc archive
- 1949. comment ordering mode inc archive
- 1950. comment\_private\_reply\_inc\_archive
- 1951. comment\_quality\_prediction\_inc archive
- 1952. comment ranking be waterfall inc archive
- 1953. comment ranking candidate level inc archive
- 1954. comment ranking comments returned shadow inc archive
- 1955. comment ranking error inc archive
- 1956. comment ranking events inc archive
- 1957. comment ranking procif request level logging inc archive
- 1958. comment ranking shadow\_logging\_inc\_archive
- 1959. comment ranking universe selector inc archive
- 1960. comment ranking waterfall inc archive
- 1961. comment ranking waterfall wt inc archive
- 1962. comment reshare events inc archive
- 1963. comment vote notification inc archive
- 1964. comments modtool inc archive
- 1965. comments ordering mode selector usage inc archive
- 1966. commerce about this shop events inc archive
- 1967. commerce actor insights inc archive
- 1968. commerce ae clustering features inc archive
- 1969. commerce ae unified actioning log inc archive
- 1970. commerce api details inc archive
- 1971. commerce badging platform jobs mtml loop examples inc archive
- 1972. commerce blending features inc archive
- 1973. commerce budget upsell candidates inc archive
- 1974. commerce buyer integrity general logging inc archive
- 1975. commerce buyer ui events hive inc archive
- 1976. commerce c2c product image inc archive
- 1977. commerce c2c theme following inc archive
- 1978. commerce care general logging inc archive
- 1979. commerce\_cat\_rental msg training sgmoe inc archive
- 1980. commerce ccds search embedding training non us inc archive
- 1981. commerce ccds search embedding training us inc archive
- 1982. commerce checkout actions inc archive
- 1983. commerce click training bsg inc archive
- 1984. commerce click training realtime prod new hive inc archive
- 1985. commerce click training realtime test new hive inc archive
- 1986. commerce click training test2 inc archive

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- 1988. commerce\_click\_training\_v2\_inc\_archive
- 1989. commerce comcom click training v2 inc archive
- 1990. commerce comcom comment training inc archive
- 1991. commerce\_comcom\_message\_training\_inc\_archive
- 1992. commerce\_cross\_channel\_data\_share\_search\_for\_ecomm\_inc\_archive
- 1993. commerce cross channel data share test inc archive
- 1994. commerce crow actor strike system inc archive
- 1995. commerce discount actions inc archive
- 1996. commerce eligibility rules inc archive
- 1997. commerce eligibility rules unittest inc archive
- 1998. commerce events filtered rc inc archive
- 1999. commerce feature logging metadata inc archive
- 2000. commerce gifting buyer inc archive
- 2001. commerce gifting click training raw data inc archive
- 2002. commerce group sellproduct autocategory inc archive
- 2003. commerce groupmall events inc archive
- 2004. commerce groupmall ranking cursor debug inc archive
- 2005. commerce\_image\_knowledge\_base\_inc\_archive
- 2006. commerce insights api activities inc archive
- 2007. commerce insights inc archive
- 2008. commerce\_integrity\_hide\_message\_thread\_inc\_archive
- 2009. commerce\_integrity\_identity\_review\_inc\_archive
- 2010. commerce integrity page enforcement inc archive
- 2011. commerce integrity reporting inc archive
- 2012. commerce integrity system events inc archive
- 2013. commerce integrity unified logging inc archive
- 2014. commerce interesting product notification inc archive
- 2015. commerce joiner metadata inc archive
- 2016. commerce localized store migration inc archive
- 2017. commerce manager ui events inc archive
- 2018. commerce marketing campaign event inc archive
- 2019. commerce marketing services curl inc archive
- 2020. commerce marketing services inc archive
- 2021. commerce marketplace microsite web client events inc archive
- 2022. commerce merchant settings actions inc archive
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- 2025. commerce model discrepancy monitor inc archive
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- 2028. commerce multilabel training bsg groupmall v1 inc archive
- 2029. commerce multilabel training bsg inc archive
- 2030. commerce multilabel training bsg v1 inc archive
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- 2035. commerce negative events training inc archive
- 2036. commerce nlp service inc archive
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- 2038. commerce\_offline\_ranking\_inc\_archive
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- 2040. commerce online calibration inc archive
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- 2048. commerce privacy policy with shadow policies events inc archive
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- 2050. commerce product hide training data inc archive
- 2051. commerce product preference training data inc archive
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- 2053. commerce ranker client inc archive
- 2054. commerce ranker features inc archive
- 2055. commerce ranking aggregator cscan inc archive
- 2056. commerce ranking aggregator request inc archive
- 2057. commerce\_ranking\_all\_features\_inc\_archive
- 2058. commerce ranking client shadow inc archive
- 2059. commerce ranking distilled training data inc archive
- 2060. commerce ranking events dropped inc archive
- 2061. commerce ranking events inc archive
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- 2063. commerce\_ranking\_events\_sessionized inc archive
- 2064. commerce ranking module type prediction table inc archive
- 2065. commerce ranking products shadow inc archive
- 2066. commerce ranking replay test 2 inc archive
- 2067. commerce ranking score data inc archive
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- 2069. commerce ranking traffic log inc archive
- 2070. commerce ranking value model inc archive
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- 2079. commerce retrieval filter insights inc archive
- 2080. commerce retrieved products inc archive
- 2081. commerce retrieved products search source inc archive
- 2082. commerce review api events inc archive
- 2083. commerce review client action events inc archive
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- 2093. commerce seller audience inc archive
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- 3823. fblite creation debugger inc archive
- 3824. fblite device configuration inc archive
- 3825. fblite device phone number qp only inc archive
- 3826. fblite\_device\_storage\_usage\_from\_server\_inc\_archive
- 3827. fblite dns resolution inc archive
- 3828. fblite e2ee persistance inc archive
- 3829. fblite fasthash zero campaign refresh inc archive
- 3830. fblite feed error state inc archive
- 3831. fblite focused path click event table inc archive
- 3832. fblite focused path impression event table inc archive
- 3833. fblite fresco disk cache evictions inc archive
- 3834. fblite friending jewel downstream action conversion inc archive
- 3835. fblite gmail qp inc archive
- 3836. fblite image cache stats inc archive
- 3837. fblite image efficiency inc archive
- 3838. fblite\_image fetch inc archive
- 3839. fblite image refetch inc archive
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- 3841. fblite ios push registration inc archive
- 3842. fblite kaios screen decode inc archive
- 3843. fblite lds general usage inc archive
- 3844. fblite\_lds\_screen\_nt\_component\_stats\_inc\_archive
- 3845. fblite litefeed waterfall inc archive
- 3846. fblite live broadcast user actions inc archive
- 3847. fblite login via browser inc archive
- 3848. fblite main menu click inc archive
- 3849. fblite media upload msssim metric inc archive
- 3850. fblite media upload reliability inc archive
- 3851. fblite message send latency inc archive
- 3852. fblite messaging typeahead inc archive
- 3853. fblite messenger thread cta with np inc archive
- 3854. fblite modularity log inc archive
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- 3856. fblite navbar buttons impression inc archive
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- 3858. fblite nt ci upload termination inc archive
- 3859. fblite nux pymk footer events inc archive
- 3860. fblite nux quick friending inc archive
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- 3862. fblite offline log limit reached inc archive
- 3863. fblite offline network inc archive
- 3864. fblite oz player inc archive
- 3865. fblite page view inc archive
- 3866. fblite phone acquisition inc archive
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- 3872. fblite screen diff inc archive
- 3873. fblite\_screen\_prepush\_dmg\_inc\_archive

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- 3875. fblite self story end card hive inc archive
- 3876. fblite sessions infra events inc archive
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- 3881. fblite\_tab\_bar\_impression\_inc archive
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- 3883. fblite upsells inc archive
- 3884. fblite user session data usage inc archive
- 3885. fblite video autoplay events inc archive
- 3886. fblite\_vip\_mismatch\_spinner\_blocked\_inc\_archive
- 3887. fblite zero balance detection inc archive
- 3888. fblite zero balance fallback inc archive
- 3889. fblite zero events inc archive
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- 4585. fbobject fbtype single request base2
- 4586. fbpay account events inc archive
- 4587. fbpay add fi activity inc archive

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- 4588. fbpay\_connect\_eligibility\_inc\_archive
- 4589. fbpay gateway log inc archive
- 4590. fbpay notif event inc archive
- 4591. fbpay order data log inc archive
- 4592. fbpay transaction log inc archive
- 4593. fbresources auto retry loading inc archive
- 4594. fbresources bad language pack info inc archive
- 4595. fbresources\_corrupt\_language\_pack\_download\_inc\_archive
- 4596. fbresources disabled fb4a inc archive
- 4597. fbresources loading failure inc archive
- 4598. fbresources loading retry inc archive
- 4599. fbresources loading success inc archive
- 4600. fbresources not available inc archive
- 4601. fbresources use english inc\_archive
- 4602. fbresources waiting complete inc archive
- 4603. fbs business events inc archive
- 4604. fbs on fb inc archive
- 4605. fbs settings inc archive
- 4606. fbshorts\_sharing\_inc\_archive
- 4607. fbstories ats card model scores inc archive
- 4608. fbstories\_ats\_card\_query\_inc\_archive
- 4609. fbstories infeed tray reply neg downsampled learning examples fbjoiner inc archive
- 4610. fbstories\_random\_learning\_examples\_inc\_archive
- 4611. fbstories server impressions inc archive
- 4612. fbstories view based table inc archive
- 4613. fbstories\_viewstate service inc archive
- 4614. fbstory integrity holistic score daily inc archive
- 4615. fbt empty impressions www inc archive
- 4616. fbt impressions inc archive
- 4617. fbt impressions www inc archive
- 4618. fbtype 38845 profile pinned feature base2
- 4619. fbvp playback debug inc archive
- 4620. fct commerce search ranking events inc archive
- 4621. fct fb account status tailer an inc archive
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- 4623. fct fblite zero persistent connection reset inc archive
- 4624. fct messenger web raw inc archive
- 4625. fct new ads created inc archive
- 4626. fct scam ads escalation inc archive
- 4627. fct unified feature repo fb logging inc archive
- 4628. fct zero rating state change v4 inc archive
- 4629. fd ent device fdid switch raw data inc archive
- 4630. feature deprecation app upgrade inc archive
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- 4632. feature edit decider validator inc archive
- 4633. feature limit experience events inc archive
- 4634. feature limits refactoring experiment inc archive
- 4635. feature review enforcement inc archive
- 4636. featured highlight double write debug event inc archive
- 4637. featuredb operations logging inc archive
- 4638. features status inc archive

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- 4639. feed ads browser extension detection inc archive
- 4640. feed ads candidate ecpm bid values inc archive
- 4641. feed ads candidate price inc archive
- 4642. feed\_ads\_frontend\_inc\_archive
- 4643. feed ads frontend str inc archive
- 4644. feed\_ads\_gap\_rule\_violations\_inc\_archive
- 4645. feed ads image stability inc archive
- 4646. feed ads invalidation smart blackout inc archive
- 4647. feed ads newsfeed collection inc archive
- 4648. feed ads newsfeed rearranging inc archive
- 4649. feed ads online reserve price frontend inc archive
- 4650. feed ads online reserve price inc archive
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- 4652. feed ads request candidates inc archive
- 4653. feed\_aggregator\_filter\_inc\_archive
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- 4657. feed awesomizer web home inc archive
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- 4663. feed content with hashtags vpv inc archive
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- 4674. feed enforcement demotion inc archive
- 4675. feed enforcement demotion trial inc archive
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- 4686. feed inventory notifications inc archive
- 4687. feed konmari feature validation falco event inc archive
- 4688. feed layouts and templates events inc archive
- 4689. feed learning examples audio inc archive

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- 4692. feed learning examples fbjoiner 360 videos downsampled inc archive
- 4693. feed learning examples fbjoiner all interfaces community presence inc archive
- 4694. feed learning examples fbjoiner all interfaces more position online downsampled inc archive
- 4695. feed\_learning\_examples\_fbjoiner\_all\_interfaces\_more\_position\_online\_inc\_archive
- 4696. feed learning examples fbjoiner all interfaces online downsampled inc archive
- 4697. feed learning examples fbjoiner borderline inc archive
- 4698. feed learning examples fbjoiner community help multi event inc archive
- 4699. feed learning examples fbjoiner feedback and report inc archive
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- 4738. feed learning examples user pay stars inc archive
- 4739. feed learning feed survey examples fbjoiner inc archive
- 4740. feed learning inline pre engagement survey\_fbjoiner\_inc\_archive

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- 4741. feed learning online low vpv raas shorts v2 inc archive
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- 4743. feed learning query examples fbjoiner dev inc archive
- 4744. feed\_message\_action\_inc\_archive
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- 4753. feed ranking vpv loss inc archive
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- 4782. fgf search logs inc archive
- 4783. fi content enforcement inc archive
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- 4786. fi name logged stats inc archive
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- 4788. find wifi inc archive
- 4789. firmware ota release update inc archive
- 4790. first degree bootstrap requests inc archive
- 4791. first party access token time inc archive

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- 4792. first party api scraping logs inc archive
- 4793. first party graph api access logs inc archive
- 4794. fishbowl error logs inc archive
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- 4796. fitbit\_active\_users\_inc\_archive
- 4797. fitbit debug inc archive
- 4798. fitbit wp debug inc archive
- 4799. flash call inc archive
- 4800. flashback user features inc archive
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- 4802. flex scheduler async job profiler fb inc archive
- 4803. flex scheduler book keeper inc archive
- 4804. flexible bonus buttons inc archive
- 4805. flexible height image ad inc archive
- 4806. flexscheduler\_ranking\_events\_inc\_archive
- 4807. flexscheduler ranking exploration events inc archive
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- 4809. flytrap ads manager canonical inc archive
- 4810. flytrap fb creation actions inc archive
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- 4862. frontend\_ad\_impression\_validator\_inc\_archive
- 4863. frt features raw inc archive
- 4864. frtp\_usage\_inc\_archive
- 4865. frx celebrity reporting typeahead inc archive
- 4866. frx chevron click inc archive
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- 4868. fsc esm activity service case sub status change base2
- 4869. fsc esm service case owner change activity base2
- 4870. fsc shub call transfer activity base2
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- 4879. fsc tip gsii profile basic info base2
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- 4889. full view impressions debug inc archive
- 4890. full\_view\_impressions\_inc\_archive
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- 4892. fun fact answer mutation inc archive
- 4893. fun fact prompt mutations inc archive

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- 4894. funding entity verification events inc archive
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- 4896. fundraiser ent history inc archive
- 4897. fundraiser notifications inc archive
- 4898. fundraiser sanctions monitoring inc archive
- 4899. funnel\_analytics\_beacon\_data\_inc\_archive
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- 4901. funnel logging ui usage inc archive
- 4902. fuss scoring trigger info inc archive
- 4903. fx company identity switcher client events inc archive
- 4904. fx contact point setting inc archive
- 4905. fx growth identity syncing inc archive
- 4906. fx identity sync inconsistent resources inc archive
- 4907. fx identity sync v2 inc archive
- 4908. fx ig to fb x posting trait inc archive
- 4909. fx im transaction test inc archive
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- 4914. fx sso events inc archive
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- 4944. games service oauth login server event sid inc archive

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- 4946. games service tournaments events inc archive
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- 4965. gaming\_arena\_inc\_archive
- 4966. gaming connect inc archive
- 4967. gaming connect post prompts inc archive
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- 4970. gaming destination notification settings inc archive
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- 4972. gaming destination surface highlights notifications inc archive
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- 4975. gaming identity badges inc archive
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- 4977. gaming looking for players inc archive
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- 4995. gaming video top live streams insights inc archive

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- 5212. group tab user setting actions inc archive
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- 5215. group user general expert experience base2
- 5216. group user views all inc archive
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- 5219. groups\_activation\_mall\_pymi\_inc\_archive
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- 5251. groups\_home\_create\_composer\_entrypoint\_inc\_archive
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- 5255. groups integrity general inc archive
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- 5269. groups\_mall\_vpv\_inc\_archive
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- 5309. groups tab to group mall event inc archive
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- 5311. groups tab unconnected badging inc archive
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- 5314. groups user signals debugging inc archive
- 5315. groups video chaining user cf user video consumption inc archive
- 5316. groups\_video\_chaining\_user\_cf\_user\_video\_consumption\_v2\_inc\_archive
- 5317. groups video chaining user cf video consumption view v2 filtered inc archive
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- 5345. hacked account recovery inc archive
- 5346. hacked cleanup mp posts inc archive
- 5347. hacked self identified metrics inc archive
- 5348. halo event v2 inc archive
- 5349. halo\_events\_inc\_archive
- 5350. halo practice test inc archive
- 5351. halo video call links user actions inc archive
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- 5354. harmful behaviour experiments inc archive
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- 5400. hiiu target candidates source inc archive
- 5401. hipster events inc archive
- 5402. historical campaign benchmark inc archive
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- 5404. hive android messenger ranking sync inc archive
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- 5436. i18n ios string impressions inc archive
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- 5465. ib proxy investigation framework logging inc archive
- 5466. ibe\_centralized\_embedding\_score\_logging\_inc\_archive
- 5467. ibe unified feature repo aggregate fb inc archive
- 5468. icc tree inc archive
- 5469. icebreaker subscriptions inc archive
- 5470. ico conv delay inc archive
- 5471. icp for cipp poison pill inc archive
- 5472. id2id cp owner matcher inc archive
- 5473. id2id name matcher inc archive
- 5474. id2id\_update\_debug\_inc\_archive
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- 5494. identity match request uii only inc archive
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- 5514. imp ad joiner retry test inc archive
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- 5523. importee notif candidate track inc archive
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- 5532. in thread story preview inc archive
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- 5534. inc dim login alerts base2
- 5535. inc dim password metadata base2
- 5536. inc dim two factor base2
- 5537. inc fb protect users base2
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- 5542. inconsistent immediate repost root inc archive
- 5543. india fop contact form inc archive
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- 5545. inferred contact state graphql event inc archive
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- 5551. initial app launch uid experiment exposure inc archive
- 5552. initial availability status inc archive
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- 5554. inline composer diglossia inc archive
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- 5556. inline cvr post imp more conv types cluster inc archive

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- 5557. inline\_cvr\_post\_imp\_more\_conv\_types\_no\_pos\_cap\_5min\_inc\_archive
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- 5559. inline cvr post imp more conv types no pos cap v2 inc archive
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- 5561. inline cvr post imp more neg ba feature only inc archive
- 5562. inline\_cvr\_post\_imp\_more\_neg\_inc\_archive
- 5563. inline cvr postclick\_model\_all\_pagetypes\_aet\_inc\_archive
- 5564. inline cvr postclick model all pagetypes inc archive
- 5565. inline follow cta event inc archive
- 5566. inline\_privacy\_survey\_native\_inc\_archive
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- 10902. webhooks sample sender events inc archive
- 10903. webi news feed results inc archive
- 10904. weblite messenger entry points inc archive
- 10905. weblite rsolution change inc archive
- 10906. weblite to native sso inc archive
- 10907. weblite\_unity\_session\_events\_inc\_archive
- 10908. webrte privacy and spam inc archive
- 10909. website\_events\_with\_classifications\_inc\_archive
- 10910. wellbeing product logger inc archive
- 10911. wellbeing timeinapp intervals inc archive

- 10912. wellbeing timeinapp perf\_inc\_archive
- 10913. wellbeing timeinapp raw inc archive
- 10914. wellbeing timeinapp ui migration inc archive
- 10915. wem health inc archive
- 10916. wem privacy mutation inc archive
- 10917. wem\_private\_sharing\_inc\_archive
- 10918. wem private sharing lu funnel inc archive
- 10919. wem private sharing lu funnel unittest inc archive
- 10920. wem private sharing reliability inc archive
- 10921. wem realtime inc archive
- 10922. wem screenshot inc archive
- 10923. whats new client logging inc archive
- 10924. whitehat report vulnerability form inc archive
- 10925. whitehat researcher profile inc archive
- 10926. whitehat test account inc archive
- 10927. who dis experiment results inc archive
- 10928. widevine license server request inc archive
- 10929. wifi scan collection stats inc archive
- 10930. wilde ad impression batch logging inc archive
- 10931. wireless positioning evaluation inc archive
- 10932. wisp\_catalyst\_inc\_archive
- 10933. with issues mutation inc archive
- 10934. wiz data verification results inc archive
- 10935. woodhouse emailer inc archive
- 10936. word blacklist editor inc archive
- 10937. work approval header hourly base2
- 10938. work automation instance debug inc archive
- 10939. work automation run info inc archive
- 10940. work browse privacy inc archive
- 10941. work bulk deactivation events inc archive
- 10942. work chat activity inc archive
- 10943. work community center inc archive
- 10944. work company notice events inc archive
- 10945. work goal inc archive
- 10946. work mobile profile views inc archive
- 10947. work outgoing webhooks inc archive
- 10948. work pymi events inc archive
- 10949. work scim company user events inc archive
- 10950. work state after claimed inc archive
- 10951. work switcher inc archive
- 10952. work user availability status actions inc archive
- 10953. workbench logging inc archive
- 10954. workflow events inc archive
- 10955. wpi events score inc archive
- 10956. wpie embeddings inc archive
- 10957. wpr results relevance inc archive
- 10958. wps local fb4a experiment inc archive
- 10959. wps on device experiments inc archive
- 10960. wrangler events inc archive
- 10961. writes to newsfeed backend inc archive
- 10962. www ads tagged requests inc archive

- 10963. www\_catapult\_inc\_archive
- 10964. www comet video autoplay inc archive
- 10965. www create menu clicks inc archive
- 10966. www\_dropped\_illegal\_impression\_inc\_archive
- 10967. www\_gap\_rules\_inc\_archive
- 10968. www image load src events dev inc archive
- 10969. www image load src events inc archive
- 10970. www matcher events inc archive
- 10971. www ufi2 development dev inc archive
- 10972. www ufi2 development inc archive
- 10973. x network impersonation report creation inc archive
- 10974. x\_out\_pymk\_suggestions\_inc\_archive
- 10975. xavier errors log inc archive
- 10976. xavier events inc archive
- 10977. xchannel all traffic unified inc archive
- 10978. xchannel all traffic unified mod2 inc archive
- 10979. xchannel all traffic unified mod inc archive
- 10980. xchannel shops ads 3co all imp inc archive
- 10981. xdelta fb inc archive
- 10982. xfac appeal core internal inc archive
- 10983. xfb\_confirmation\_cliff\_inc\_archive
- 10984. xfb confirmation events inc archive
- 10985. xfb confirmation inc archive
- 10986. xfb\_registration\_inc\_archive
- 10987. xma send inc archive
- 10988. xma style inc archive
- 10989. xout lwnf mobile feed inc archive
- 10990. xplat media manager log inc archive
- 10991. xpp events inc archive
- 10992. xpv service inc archive
- 10993. xrt ent history inc archive
- 10994. xs cookie counter events inc archive
- 10995. xstream stg groups actions detail inc archive
- 10996. ya feed units inc archive
- 10997. ya heavy page videos offline cache results inc archive
- 10998. ya interests picker inc archive
- 10999. ya video chaining user cf user video consumption inc archive
- 11000. yao xiao integrity adhoc inc archive
- 11001. youth birthday change inc archive
- 11002. youth hs typeahead inc archive
- 11003. zendesk\_api\_inc\_archive
- 11004. zenon redblock inc archive
- 11005. zero always free endpoint inc archive
- 11006. zero balance detection inc archive
- 11007. zero banner inc archive
- 11008. zero carrier signal dual ping inc archive
- 11009. zero carrier signal v2 client ping inc archive
- 11010. zero carrier signal v2 client run inc archive
- 11011. zero\_cdn\_urlgen\_inc\_archive
- 11012. zero dialtone whitelisted impression inc archive
- 11013. zero eligibility hash inc archive

- 11014. zero\_external\_sales\_inc\_archive
- 11015. zero fup blocked users hive inc archive
- 11016. zero fup events inc archive
- 11017. zero graphql queries inc archive
- 11018. zero growth inc archive
- 11019. zero header availability inc archive
- 11020. zero header compliance inc archive
- 11021. zero header request android inc archive
- 11022. zero host pricing inc archive
- 11023. zero interstitials inc archive
- 11024. zero jio header config fetch inc archive
- 11025. zero jio header inc archive
- 11026. zero js rewrite rules inc archive
- 11027. zero mode switch event inc archive
- 11028. zero optin fetch api inc archive
- 11029. zero\_product\_compliance\_inc\_archive
- 11030. zero provisioned identity ent history inc archive
- 11031. zero provisioning inc archive
- 11032. zero rating state change fb4a inc archive
- 11033. zero redirect inc archive
- 11034. zero sdk client dispatched events inc archive
- 11035. zero sdk generic event inc archive
- 11036. zero slb tailer output debug inc archive
- 11037. zero slb tailer output inc archive
- 11038. zero traffic image request violation inc archive
- 11039. zero traffic userid msisdn hive inc archive
- 11040. zero uat checkpoints inc archive
- 11041. zero upsell carrier callback inc archive
- 11042. zero upsell carrier page inc archive
- 11043. zero upsell debugging inc archive
- 11044. zero upsell events inc archive
- 11045. zero upsell interstitials inc archive
- 11046. zero upsell machine learning inc archive
- 11047. zero upsell manual msisdn inc archive
- 11048. zero upsell ranking infra inc archive
- 11049. zero user tracing inc archive
- 11050. zhejun testv2 ppf scribeh adconv2 unattributed inc archive
- 11051. zsh headers config fetch inc archive

# Exhibit C

Highly Confidential -Attorneys' Eyes Only

USER DATA TYPE	LOCATION	CONTRACTS
Photos	DYI	Microsoft Mobile App Submission, Windows Phone Facebook App (4/7/09)
	511	Microsoft Mobile App Submission, Myphone (10/27/09)
		Microsoft Application Development Amendment (1/7/10)
		Microsoft Mobile App Submission, Windows 7 Mango (7/5/11)
		Microsoft Mobile App Submission, Windows 8 (9/27/12)
		Microsoft Mobile App Submission, Windows 8 (2/27/15)
Names	DYI	Microsoft Application Development Amendment (1/7/10)
Make a friend request	DYI	Microsoft Application Development Amendment (1/7/10)
User ID	DYI	Microsoft Feed Integration Agreement (+Amendment 1) (11/11/08):
		Microsoft Limited Data Sharing Agreement (8/23/10)
		Microsoft Bing Search on Facebook Service and Platform Agreement, Amendment 6 (12/23/14)
User name	DYI	Microsoft Bing Search on Facebook Service and Platform Agreement, Amendment 6 (12/23/14); Microsoft Limited Data Sharing Agreement (8/23/10)
Timestamp of update	DYI	Microsoft Bing Search on Facebook Service and Platform Agreement, Amendment 6 (12/23/14)
Status update text	DYI	Microsoft Bing Search on Facebook Service and Platform Agreement, Amendment 6 (12/23/14)
Shared link	DYI	Microsoft Bing Search on Facebook Service and Platform Agreement, Amendment 6 (12/23/14)
Timestamp of when like performed	DYI	Microsoft Bing Search on Facebook Service and Platform Agreement, Amendment 6 (12/23/14)
Any like for the user	DYI	Microsoft Bing Search on Facebook Service and Platform Agreement, Amendment 6 (12/23/14)
Type of like action and URL being liked	DYI	Microsoft Bing Search on Facebook Service and Platform Agreement, Amendment 6 (12/23/14)
User login data	DYI	Microsoft Collaboration Evaluation Agreement (5/11/09)
IP address used for login	DYI	Microsoft Collaboration Evaluation Agreement (5/11/09)
Timestamp of login event	DYI	Microsoft Collaboration Evaluation Agreement (5/11/09)
User ID and timestamp of when a change occurred to user profile	DYI	Microsoft Limited Data Sharing Agreement (8/23/10):
User profile picture URL	DYI	Microsoft Limited Data Sharing Agreement (8/23/10)
Work history (contains employer)	DYI	Microsoft Limited Data Sharing Agreement (8/23/10)
Education (contains school)	DYI DYI	Microsoft Limited Data Sharing Agreement (8/23/10)
Interest	_	Microsoft Limited Data Sharing Agreement (8/23/10)  Microsoft Limited Data Sharing Agreement (8/23/10)
Movies Books	DYI DYI	Microsoft Limited Data Sharing Agreement (8/23/10)  Microsoft Limited Data Sharing Agreement (8/23/10)
Music	DYI	Microsoft Limited Data Sharing Agreement (8/23/10)
Activities	DYI	Microsoft Limited Data Sharing Agreement (8/23/10)
Gender	DYI	Microsoft Limited Data Sharing Agreement (8/23/10)
Location	DYI	Microsoft Limited Data Sharing Agreement (8/23/10)
Hometown	DYI	Microsoft Limited Data Sharing Agreement (8/23/10)
Most recent stories	DYI	Microsoft Mobile App Submission, Windows 7 Mango (7/5/11)
Online albums	DYI	Microsoft Mobile App Submission, Windows 7 Mango (7/5/11)
Events	DYI	Microsoft Mobile App Submission, Windows 7 Mango (7/5/11)
		Microsoft Mobile App Submission, Windows 8 (9/27/12)
		Microsoft Mobile App Submission, Facebook app for Windows Phone (6/5/13)
Upload photos and videos	DYI	Microsoft Mobile App Submission, Windows Phone Facebook App (4/7/09)
		Microsoft Mobile App Submission, Windows 7 Mango (7/5/11)
		Microsoft Mobile App Submission, Windows 8 (9/27/12)
		Microsoft Mobile App Submission, Windows 8 (2/27/15)
		Microsoft Mobile App Submission, Facebook app for Windows Phone (6/5/13)
Comment on feed stories	DYI	Microsoft Mobile App Submission, Windows 7 Mango (7/5/11)
View and create tags on FB photos, and respond to Facebook events	DYI	Microsoft Mobile App Submission, Windows 7 Mango (7/5/11
Offline messages	DYI	Microsoft Mobile App Submission, Windows 8 (9/27/12)
Friends	DYI	Microsoft Mobile App Submission, Windows 8 (9/27/12); Microsoft Limited Data Sharing
Stories Status undates (Posts)	DYI	Microsoft Mobile App Submission, Windows 8 (9/27/12)  Microsoft Mobile App Submission, Windows 8 (9/27/12)
Status updates (Posts) Facebook Places (Your Places)	DYI DYI	Microsoft Mobile App Submission, Windows 8 (9/27/12)  Microsoft Mobile App Submission, Windows 8 (9/27/12)
Email	DYI	Microsoft Mobile App Submission, Windows 8 (9/21/12)  Microsoft Mobile App Submission, Windows Phone Facebook App (4/7/09)
Dilan	711	Microsoft Mobile App Submission, Windows Phone Facebook App (4/7/09)  Microsoft Mobile App Submission, Facebook app for Windows Phone (6/5/13)
		Microsoft Mobile App Submission, Facebook app for Windows Phone (6/3/13)
Contacts	DYI	Microsoft Mobile App Submission, Windows Phone Facebook App (4/7/09)
	[	Microsoft Mobile App Submission, Facebook app for Windows Phone (6/5/13)
Update status	DYI	Microsoft Mobile App Submission, Vindows Phone Facebook App (4/7/09)
•		Microsoft Mobile App Submission, Facebook app for Windows Phone (6/5/13)
		Microsoft Mobile App Submission, Windows 8 (2/27/15)
Facebook home page	DYI	Microsoft Mobile App Submission, Windows Phone Facebook App (4/7/09)
		Microsoft Mobile App Submission, Facebook app for Windows Phone (6/5/13)
		Microsoft Mobile App Submission, Windows 8 (2/27/15)
Profile page	DYI	Microsoft Mobile App Submission, Windows Phone Facebook App (4/7/09)
		Microsoft Mobile App Submission, Facebook app for Windows Phone (6/5/13)
	<u> </u>	Microsoft Mobile App Submission, Windows 8 (2/27/15)
"Content that a given Facebook user or page sets as being viewable	DYI	Microsoft RealTime Data Licensing Agreement (10/20/09)
by everyone"		
Privacy settings	TAO and Hive	Microsoft Limited Data Sharing Agreement (8/23/10)
Set permissions (audience controls on a post)	TAO	Microsoft Mobile App Submission, Windows 8 (9/27/12)